

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P319153

Luminaire Tested: **GLEON-SA9A-827-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9A-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30413 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

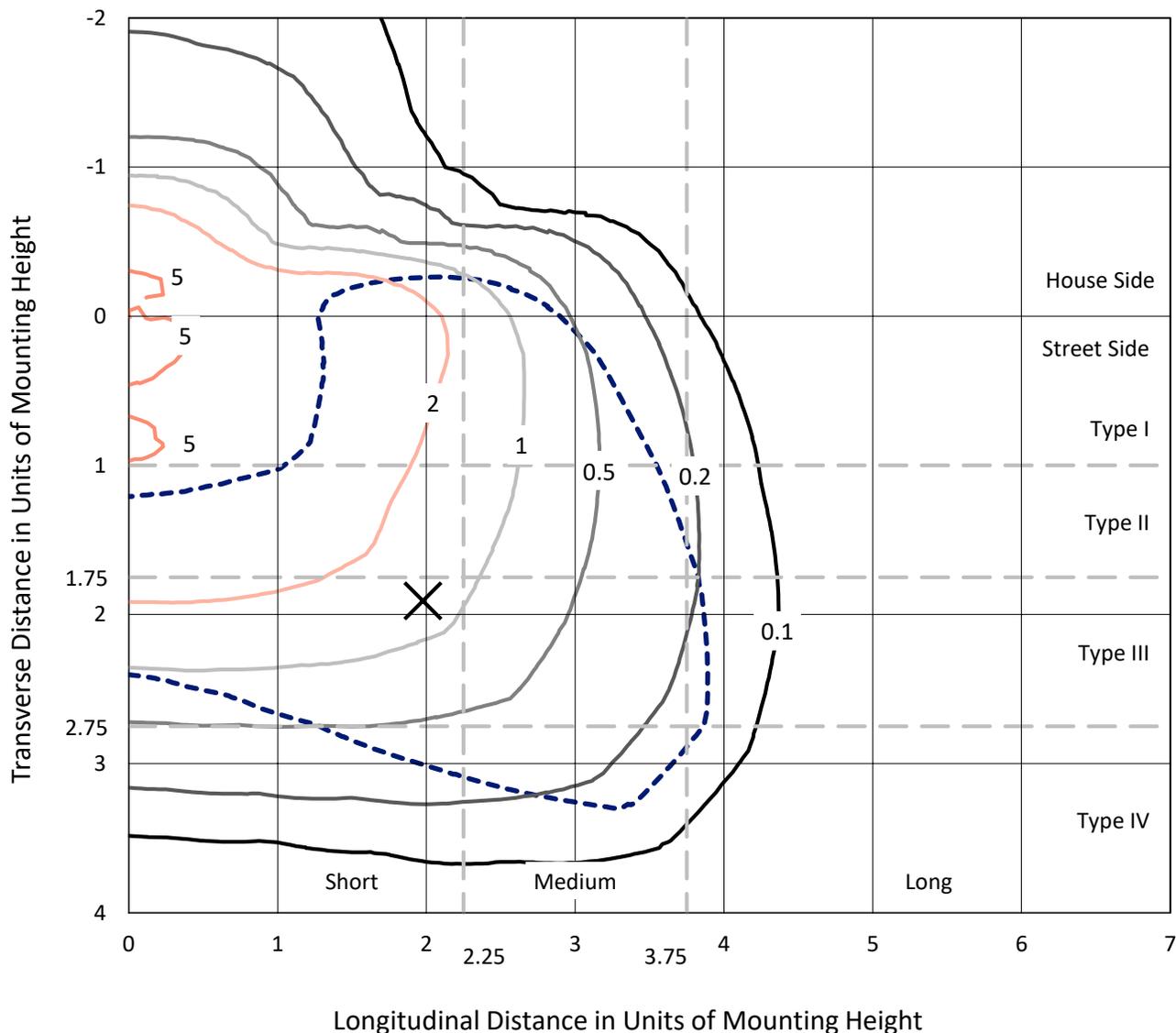
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

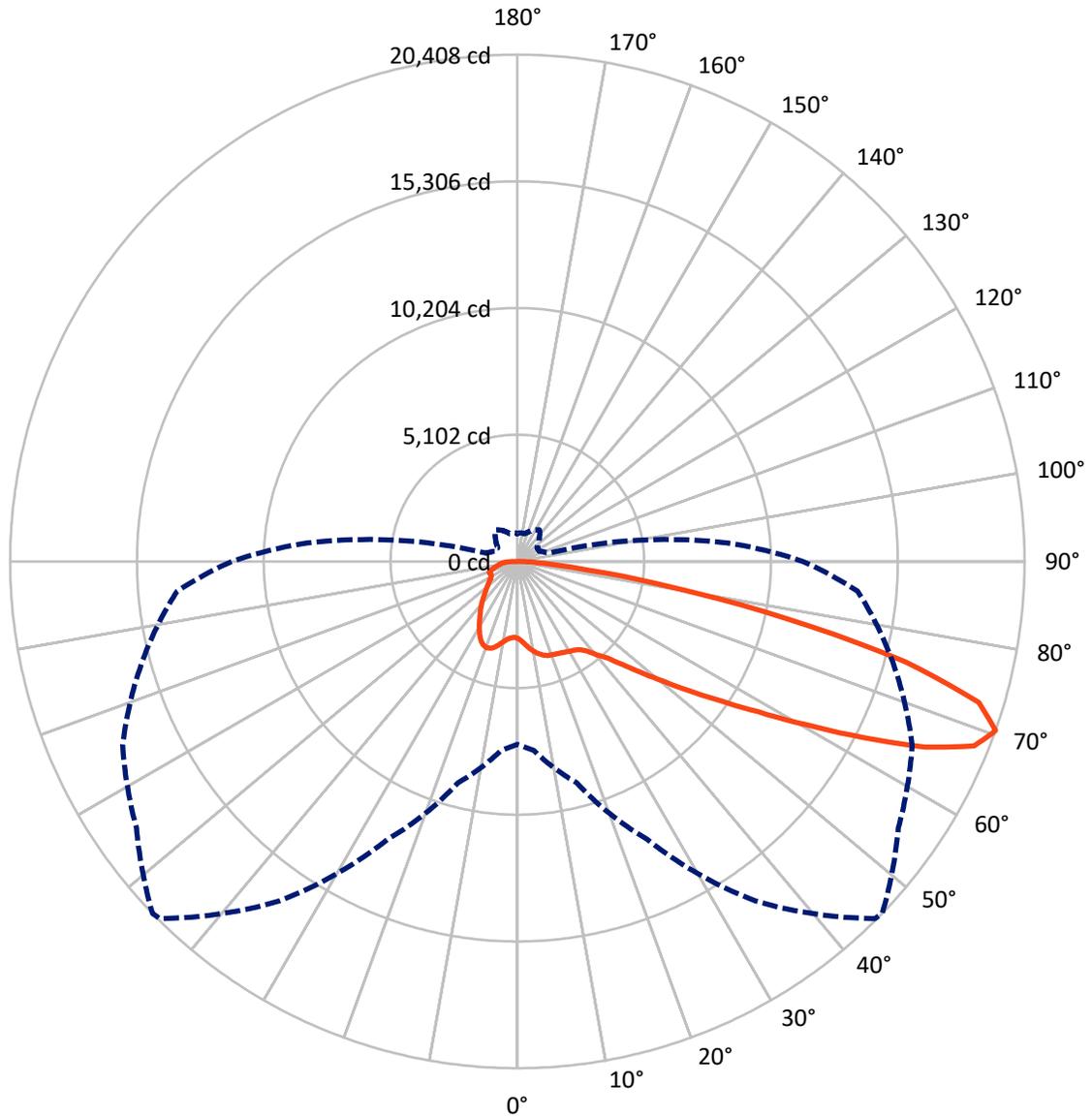
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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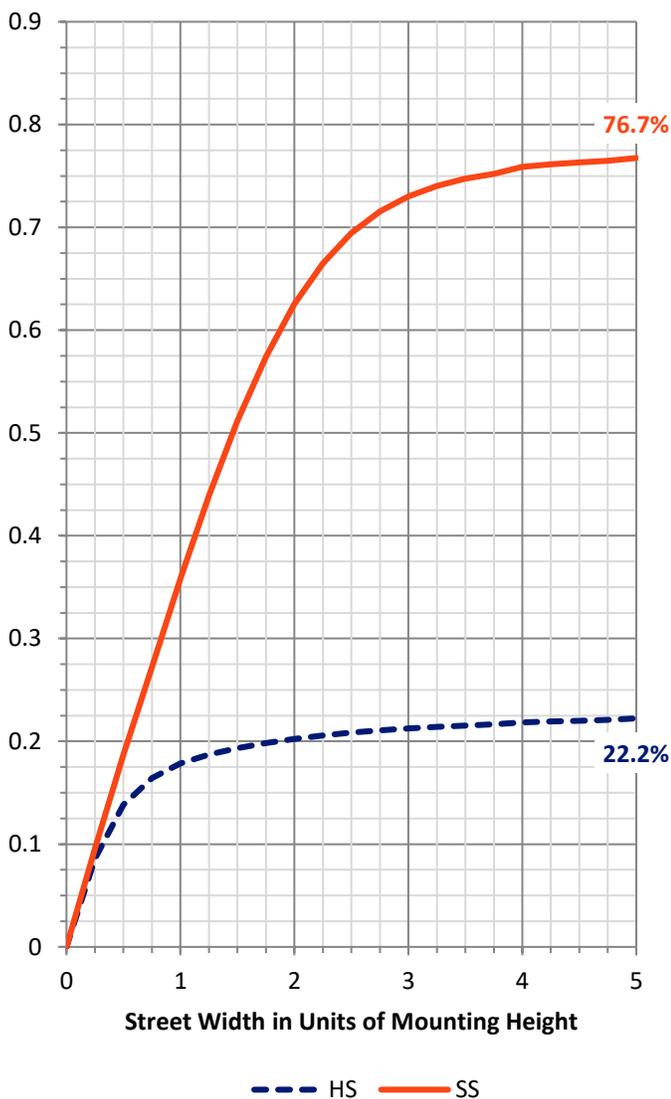
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6970.6	0.0	6970.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	23442.4	0.0	23442.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	30413.0	0.0	30413.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.9	1.0
10°-20°	1052.4	3.5
20°-30°	1754.7	5.8
30°-40°	2490.1	8.2
40°-50°	3662.7	12.0
50°-60°	6202.8	20.4
60°-70°	8804.8	29.0
70°-80°	5349.0	17.6
80°-90°	780.6	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	30413.0	100.0
0°-180°	30413.0	100.0

**Coefficient of Utilization**

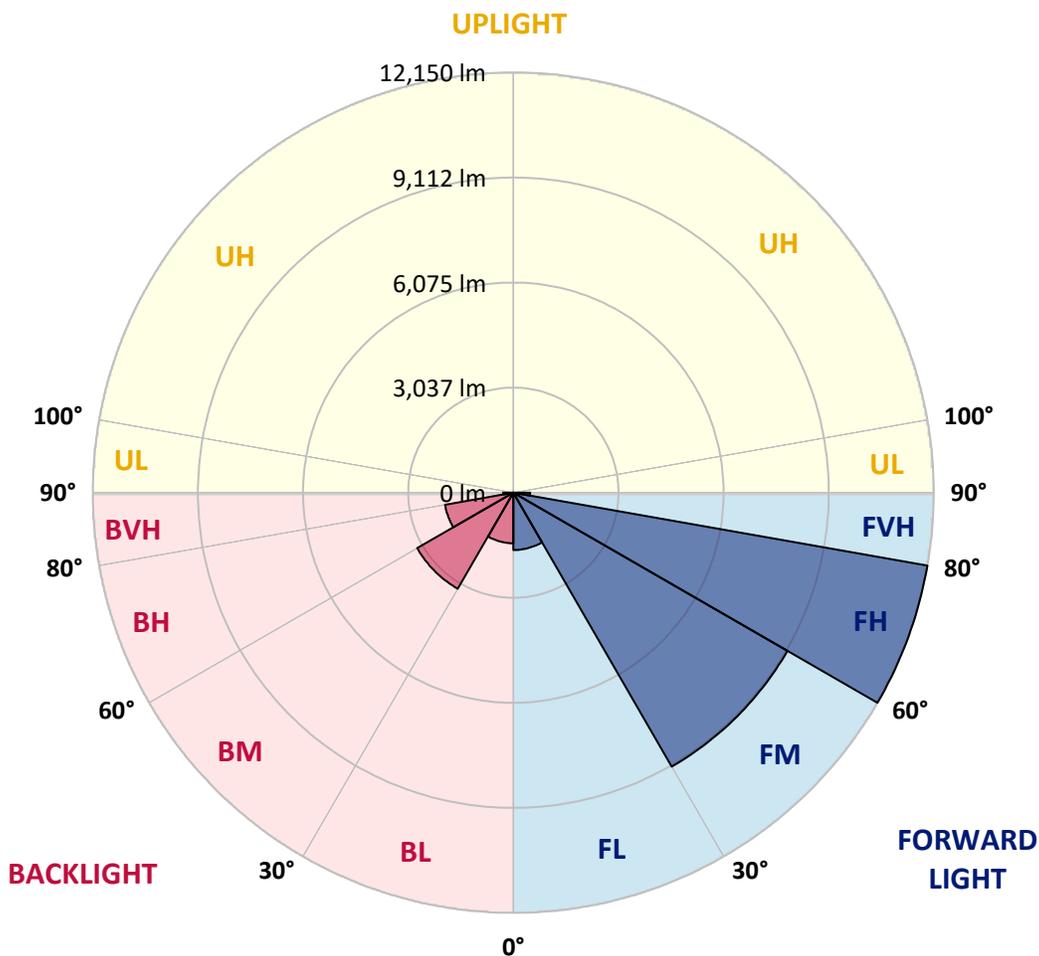


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.5	5.5			
FM (30°-60°)	9146.9	30.1			
FH (60°-80°)	12149.8	39.9			G5
FVH (80°-90°)	486.3	1.6			G3/500
BL (0°-30°)	1463.5	4.8	B3/2500		
BM (30°-60°)	3208.7	10.6	B3/5000		
BH (60°-80°)	2004.0	6.6	B3/2500		G3/2500
BVH (80°-90°)	294.4	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3098.5	3098.5	3098.5	3098.5	3098.5	3098.5	3098.5	3098.5	3098.5	3098.5	3098.5
2.5°	3253.6	3255.7	3259.8	3249.4	3220.3	3211.9	3208.8	3178.6	3158.9	3129.7	3104.7
5°	3513.8	3515.9	3509.6	3480.5	3415.9	3368.1	3363.9	3295.2	3232.8	3166.1	3116.2
7.5°	3785.4	3788.5	3768.8	3713.6	3623.1	3539.8	3534.6	3440.9	3346.2	3245.2	3170.3
10°	4025.9	4013.4	3981.1	3904.1	3796.9	3694.9	3690.7	3592.9	3483.6	3361.8	3261.9
12.5°	4186.1	4175.7	4134.1	4040.4	3922.8	3829.1	3820.8	3730.3	3624.1	3490.9	3371.2
15°	4274.6	4281.9	4225.7	4119.5	4005.0	3925.9	3918.6	3854.1	3759.4	3625.1	3487.8
17.5°	4286.1	4292.3	4238.2	4133.1	4039.4	3985.3	3982.1	3939.5	3870.8	3741.7	3598.1
20°	4219.4	4223.6	4178.8	4092.5	4031.1	4014.4	4013.4	3994.6	3943.6	3829.1	3689.7
22.5°	4122.6	4125.8	4093.5	4031.1	4010.2	4036.3	4043.5	4036.3	3999.8	3892.6	3761.5
25°	4098.7	4096.6	4063.3	3999.8	4017.5	4072.7	4082.1	4085.2	4060.2	3966.5	3853.1
27.5°	4214.2	4207.0	4143.5	4041.5	4052.9	4119.5	4132.0	4162.2	4146.6	4064.4	3957.2
30°	4548.3	4535.8	4405.7	4199.7	4143.5	4177.8	4193.4	4241.3	4244.4	4175.7	4095.6
32.5°	5112.5	5096.8	4863.7	4495.3	4296.5	4237.1	4251.7	4323.5	4362.0	4309.0	4222.6
35°	5825.4	5807.7	5501.7	4998.0	4552.5	4350.6	4361.0	4418.2	4495.3	4420.3	4305.8
37.5°	6568.5	6525.9	6231.3	5589.1	4959.5	4593.1	4593.1	4600.4	4636.8	4480.7	4403.7
40°	7307.5	7264.8	6998.4	6284.4	5486.1	4975.1	4951.1	4789.8	4760.7	4626.4	4600.4
42.5°	7994.5	7982.0	7824.8	7070.2	6104.3	5350.8	5317.5	5043.8	5050.0	4966.7	4967.8
45°	8725.1	8725.1	8597.1	7863.3	6824.6	5954.5	5921.2	5518.4	5580.8	5542.3	5634.9
47.5°	9321.5	9340.2	9322.5	8689.7	7662.4	6721.5	6661.2	6176.2	6351.0	6483.2	6752.8
50°	9930.4	9959.5	9962.6	9596.3	8675.1	7633.3	7564.6	7049.4	7439.7	7818.6	8348.3
52.5°	10814.0	10879.6	10618.3	10500.7	9915.8	8715.7	8648.1	8172.4	8824.0	9355.8	10268.6
55°	11633.1	11575.9	11389.6	11462.4	11243.9	9948.1	9897.1	9479.7	10366.5	11057.6	12243.0
57.5°	12076.5	12072.3	12259.7	12571.9	12676.0	11467.6	11425.0	11019.0	12105.7	12625.0	14096.7
60°	12596.9	12604.2	13068.4	13777.2	14206.0	13359.8	13341.1	13033.0	13794.9	14088.4	15550.7
62.5°	12669.8	12800.9	13600.3	14820.1	15638.2	15570.5	15612.1	14847.1	15306.1	15256.2	16636.3
65°	11831.9	12004.7	13451.4	15135.4	17062.0	17988.3	18026.8	16671.7	16497.9	16254.3	17024.5
67.5°	10114.6	10370.6	11942.2	14449.6	17531.4	19775.4	19829.5	18086.1	17486.6	16592.6	16089.9
70°	7360.6	7644.7	9226.8	12340.9	16694.6	20346.8	20408.2	18711.7	17524.1	15629.8	13735.6
72.5°	4446.3	4669.1	5973.2	9085.2	14090.5	19306.0	19415.3	17918.6	15999.3	13239.1	10142.7
75°	1952.6	2098.3	2888.2	5235.3	10087.5	15973.3	16109.6	15337.4	12999.7	9621.2	5995.1
77.5°	831.6	873.2	1184.4	2274.2	5702.6	10915.0	11102.3	11206.4	8819.8	5235.3	2533.3
80°	518.3	535.0	670.3	1029.4	2668.6	6130.4	6332.3	6593.5	4379.7	1924.5	884.7
82.5°	315.4	334.1	445.5	622.4	1389.5	2779.0	2875.8	3060.0	1699.6	831.6	458.0
85°	189.4	203.0	272.7	393.4	791.0	1092.8	1091.8	1207.3	800.4	535.0	241.5
87.5°	90.6	101.0	145.7	204.0	398.6	410.1	384.1	435.1	486.1	350.8	121.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3098.5	3098.5	3098.5	3098.5	3098.5	3098.5	3098.5	3098.5	3098.5	3098.5	3098.5
2.5°	3096.4	3092.2	3078.7	3068.3	3066.2	3060.0	3054.8	3057.9	3062.1	3063.1	3063.1
5°	3095.4	3083.9	3066.2	3058.9	3068.3	3080.8	3096.4	3117.2	3129.7	3139.1	3145.3
7.5°	3145.3	3123.5	3103.7	3099.5	3118.3	3151.6	3187.0	3230.7	3260.9	3281.7	3285.8
10°	3228.6	3201.5	3181.8	3185.9	3219.2	3267.1	3317.1	3373.3	3419.1	3447.2	3449.2
12.5°	3324.3	3298.3	3279.6	3297.3	3352.4	3410.7	3462.8	3511.7	3553.3	3581.4	3581.4
15°	3434.7	3415.9	3394.1	3434.7	3509.6	3561.6	3583.5	3607.4	3630.3	3651.2	3647.0
17.5°	3540.8	3523.1	3511.7	3559.6	3637.6	3661.6	3647.0	3629.3	3629.3	3640.8	3642.8
20°	3632.4	3616.8	3624.1	3670.9	3711.5	3686.5	3632.4	3576.2	3553.3	3559.6	3565.8
22.5°	3712.6	3705.3	3727.1	3749.0	3719.9	3632.4	3532.5	3456.5	3428.4	3426.3	3428.4
25°	3806.2	3805.2	3832.3	3792.7	3663.6	3502.3	3368.1	3294.2	3278.5	3291.0	3311.9
27.5°	3922.8	3934.3	3947.8	3803.1	3549.2	3305.6	3169.3	3118.3	3133.9	3164.1	3183.8
30°	4071.6	4102.9	4073.7	3777.1	3384.7	3080.8	2950.7	2936.1	2978.8	3021.5	3042.3
32.5°	4216.3	4265.2	4194.5	3709.4	3172.4	2842.5	2741.5	2737.3	2789.4	2831.0	2860.1
35°	4332.9	4429.7	4285.0	3575.2	2926.8	2622.8	2548.9	2520.8	2539.6	2588.5	2621.8
37.5°	4484.8	4646.2	4347.5	3370.1	2660.3	2441.7	2355.4	2290.8	2274.2	2293.9	2310.6
40°	4762.7	4976.1	4376.6	3083.9	2400.1	2260.6	2173.2	2078.5	2012.9	1965.0	1966.1
42.5°	5216.5	5406.0	4357.9	2736.3	2159.7	2083.7	1984.8	1875.5	1769.4	1661.1	1652.8
45°	5953.4	6045.0	4301.7	2367.8	1948.4	1898.4	1805.8	1696.5	1555.0	1432.2	1420.7
47.5°	7132.7	6929.7	4214.2	2046.2	1762.1	1741.3	1655.9	1530.0	1380.1	1281.2	1272.9
50°	8740.7	8206.8	4171.6	1790.2	1597.6	1603.9	1534.2	1400.9	1259.4	1186.5	1178.2
52.5°	10664.1	9694.1	4253.8	1592.4	1465.5	1487.3	1435.3	1310.4	1191.7	1134.5	1126.2
55°	12659.4	11234.5	4342.3	1448.8	1340.6	1383.2	1365.5	1262.5	1155.3	1102.2	1094.9
57.5°	14367.3	12384.6	4165.3	1332.2	1229.2	1295.8	1311.4	1232.3	1136.6	1088.7	1080.4
60°	15442.5	12847.8	3701.1	1223.0	1140.7	1226.1	1280.2	1224.0	1143.8	1139.7	1133.4
62.5°	15952.5	12807.2	3004.8	1136.6	1085.6	1195.9	1303.1	1270.8	1227.1	1264.6	1267.7
65°	15723.5	12195.2	2237.7	1079.3	1046.0	1207.3	1371.8	1359.3	1251.1	1288.5	1293.7
67.5°	14216.4	10734.9	1657.0	1029.4	1002.3	1239.6	1496.7	1388.4	1204.2	1231.3	1214.6
70°	11490.5	8510.7	1278.1	973.2	957.5	1235.4	1552.9	1370.7	1153.2	1159.5	1114.7
72.5°	7923.7	5803.6	1039.8	921.1	893.0	1126.2	1513.3	1327.0	1110.5	1062.7	1003.3
75°	4309.0	3115.1	883.6	867.0	779.6	988.8	1440.5	1295.8	1072.0	1008.5	975.2
77.5°	1695.5	1292.7	767.1	793.1	681.7	873.2	1359.3	1236.5	1019.0	935.7	919.0
80°	692.1	659.9	635.9	685.9	586.0	764.0	1261.5	1166.7	955.5	868.0	834.7
82.5°	392.4	410.1	494.4	541.2	475.6	703.6	1214.6	1110.5	879.5	777.5	737.9
85°	200.9	240.4	344.5	388.2	349.7	598.5	1118.9	972.1	705.7	595.3	598.5
87.5°	96.8	134.3	217.5	243.5	226.9	433.0	835.8	704.6	549.5	435.1	421.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)