

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: P383157

Luminaire Tested: **GLEON-SA4D-735-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383157  
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-SA4D-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28952.5 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

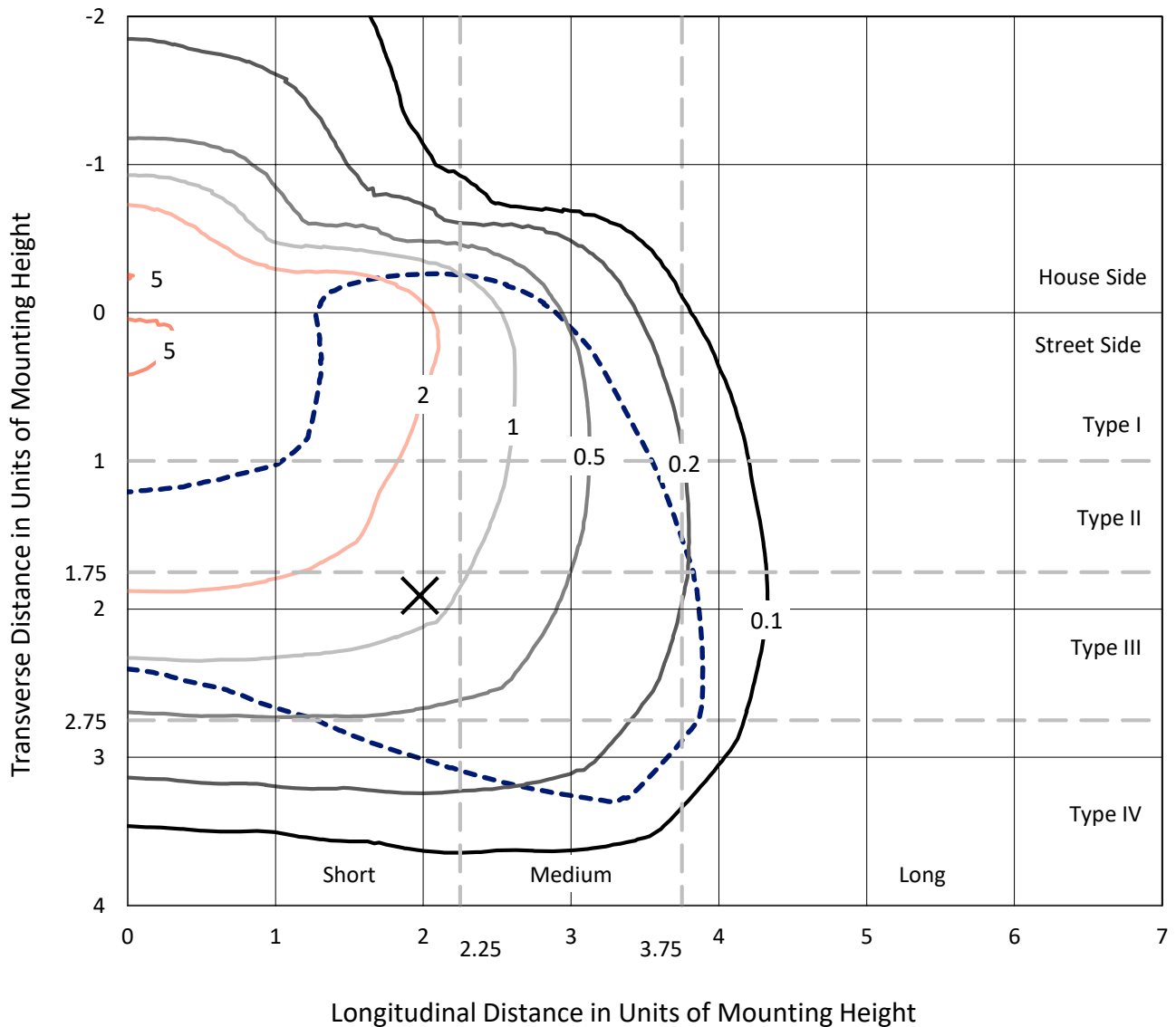
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

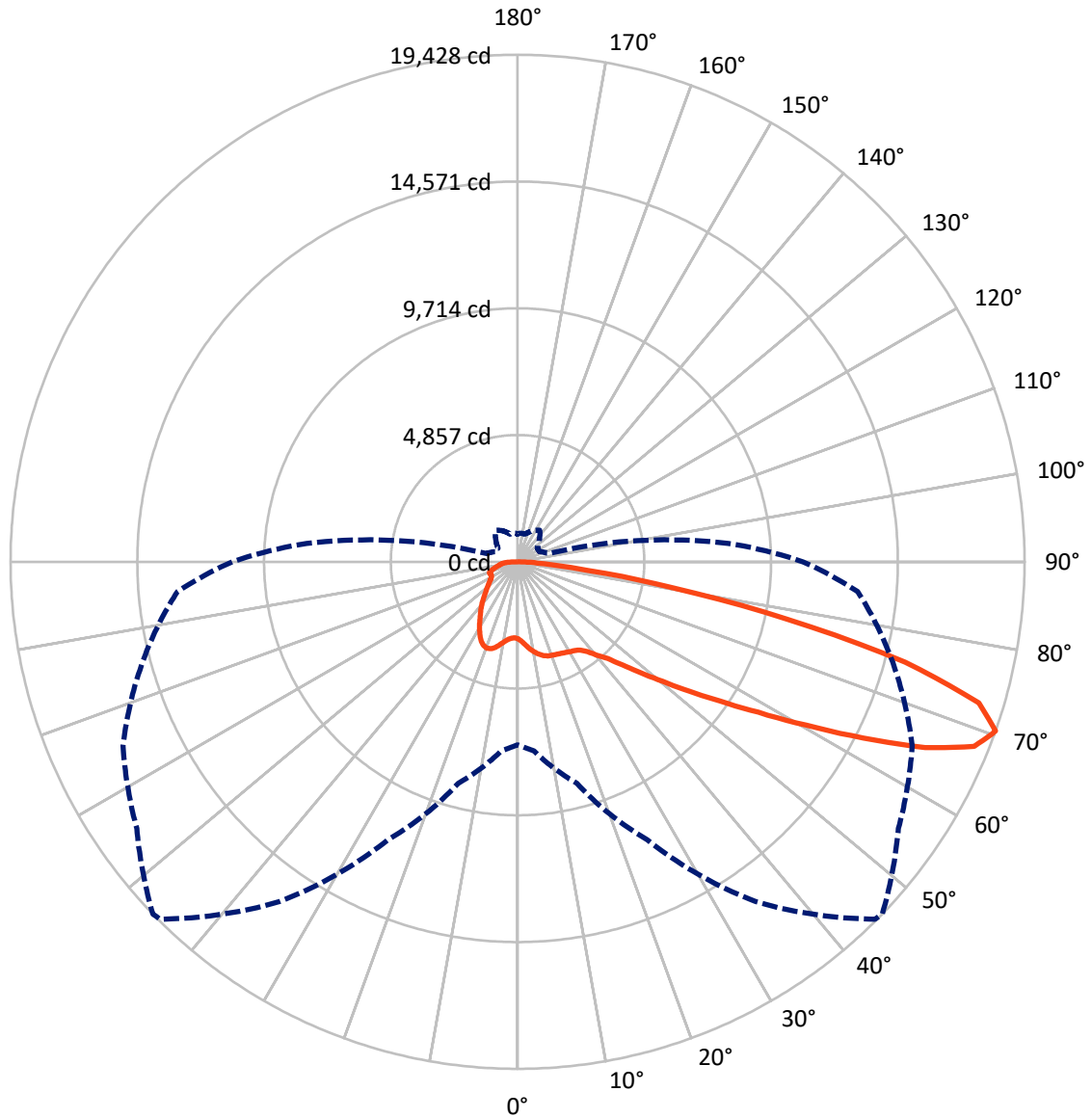
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	6635.8	0.0	6635.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	22316.7	0.0	22316.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	28952.5	0.0	28952.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.7	1.0
10°-20°	1001.8	3.5
20°-30°	1670.5	5.8
30°-40°	2370.5	8.2
40°-50°	3486.8	12.0
50°-60°	5905.0	20.4
60°-70°	8382.0	29.0
70°-80°	5092.1	17.6
80°-90°	743.1	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°	28952.5	100.0
0°-180°	28952.5	100.0

**Coefficient of Utilization**



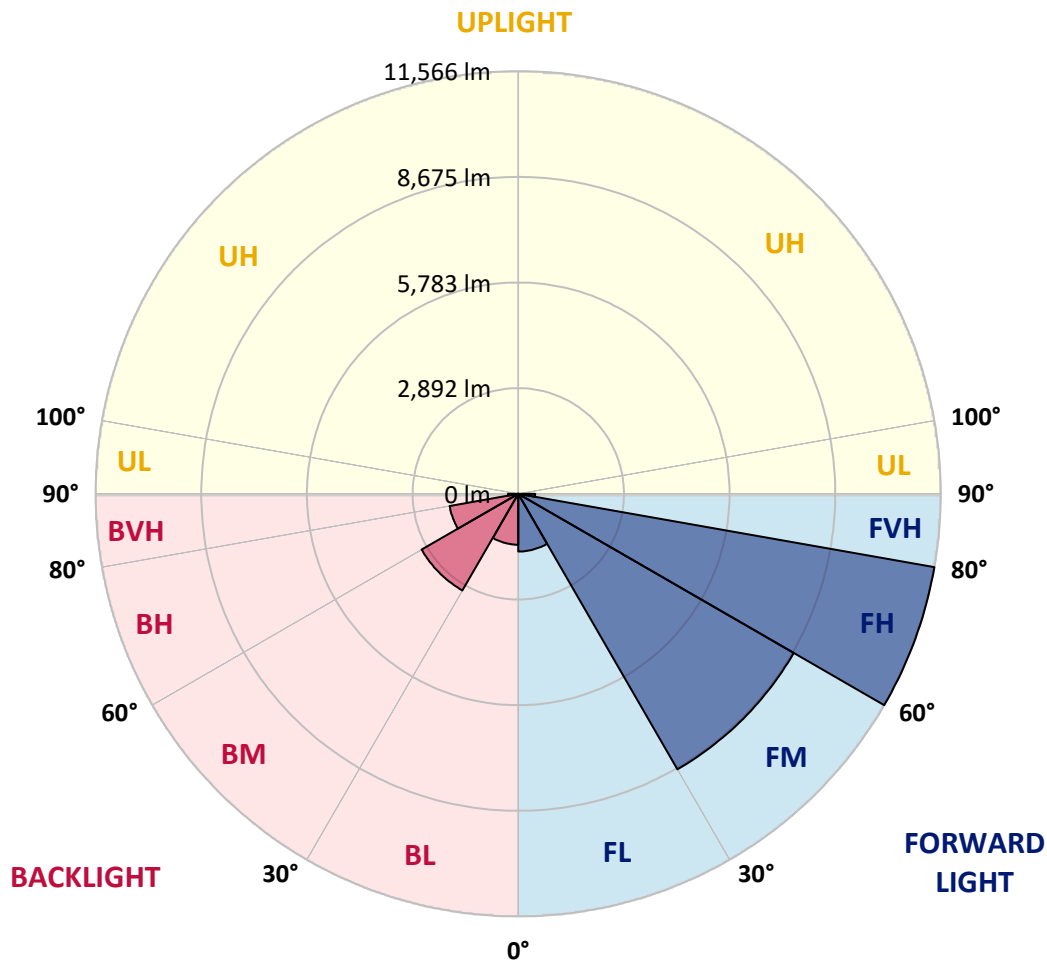
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.8	5.5			
FM (30°-60°)	8707.6	30.1			
FH (60°-80°)	11566.4	39.9			G4/12000
FVH (80°-90°)	462.9	1.6			G3/500
BL (0°-30°)	1393.2	4.8	B3/2500		
BM (30°-60°)	3054.7	10.6	B3/5000		
BH (60°-80°)	1907.7	6.6	B3/2500		G3/2500
BVH (80°-90°)	280.2	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2949.7	2949.7	2949.7	2949.7	2949.7	2949.7	2949.7	2949.7	2949.7	2949.7	2949.7
2.5°	3097.3	3099.4	3103.3	3093.4	3065.6	3057.7	3054.7	3025.9	3007.1	2979.5	2955.6
5°	3345.0	3347.1	3341.1	3313.3	3251.9	3206.3	3202.4	3137.0	3077.6	3014.1	2966.5
7.5°	3603.6	3606.6	3587.8	3535.3	3449.1	3369.8	3364.8	3275.7	3185.5	3089.4	3018.0
10°	3832.5	3820.6	3789.9	3716.6	3614.5	3517.4	3513.5	3420.4	3316.3	3200.3	3105.2
12.5°	3985.1	3975.2	3935.6	3846.4	3734.4	3645.2	3637.3	3551.2	3450.1	3323.2	3209.3
15°	4069.4	4076.3	4022.8	3921.7	3812.7	3737.4	3730.5	3669.0	3578.9	3451.0	3320.2
17.5°	4080.3	4086.1	4034.6	3934.6	3845.4	3793.9	3790.9	3750.3	3684.9	3562.1	3425.3
20°	4016.8	4020.7	3978.2	3895.9	3837.5	3821.6	3820.6	3802.8	3754.2	3645.2	3512.5
22.5°	3924.7	3927.7	3896.9	3837.5	3817.7	3842.4	3849.3	3842.4	3807.8	3705.7	3580.9
25°	3901.9	3899.9	3868.2	3807.8	3824.6	3877.1	3886.0	3889.0	3865.2	3776.0	3668.1
27.5°	4011.9	4004.9	3944.5	3847.4	3858.3	3921.7	3933.6	3962.3	3947.4	3869.2	3767.1
30°	4329.9	4318.0	4194.2	3998.0	3944.5	3977.1	3992.1	4037.6	4040.6	3975.2	3898.9
32.5°	4867.0	4852.1	4630.2	4279.3	4090.1	4033.7	4047.6	4115.9	4152.6	4102.1	4019.8
35°	5545.7	5528.8	5237.5	4758.0	4333.8	4141.7	4151.5	4206.0	4279.3	4208.1	4099.1
37.5°	6253.1	6212.5	5932.1	5320.7	4721.3	4372.5	4372.5	4379.5	4414.1	4265.6	4192.2
40°	6956.6	6916.0	6662.3	5982.6	5222.6	4736.2	4713.4	4559.8	4532.1	4404.3	4379.5
42.5°	7610.6	7598.6	7449.0	6730.7	5811.2	5093.9	5062.1	4801.6	4807.5	4728.3	4729.2
45°	8306.1	8306.1	8184.2	7485.7	6496.9	5668.6	5636.8	5253.4	5312.8	5276.2	5364.3
47.5°	8873.8	8891.7	8874.9	8272.4	7294.5	6398.8	6341.3	5879.6	6046.0	6171.9	6428.5
50°	9453.4	9481.2	9484.2	9135.4	8258.5	7266.7	7201.3	6710.9	7082.5	7443.1	7947.4
52.5°	10294.7	10357.1	10108.4	9996.4	9439.7	8297.2	8232.7	7780.0	8400.2	8906.5	9775.5
55°	11074.5	11020.0	10842.7	10912.0	10703.9	9470.3	9421.8	9024.5	9868.6	10526.6	11655.1
57.5°	11496.6	11492.6	11671.0	11968.2	12067.3	10916.9	10876.3	10489.9	11524.3	12018.7	13419.8
60°	11992.0	11998.9	12440.8	13115.5	13523.8	12718.2	12700.4	12407.1	13132.4	13411.9	14804.0
62.5°	12061.3	12186.2	12947.1	14108.4	14887.2	14822.8	14862.4	14134.2	14571.1	14523.6	15837.4
65°	11263.7	11428.2	12805.4	14408.6	16242.7	17124.5	17161.2	15871.1	15705.6	15473.8	16207.0
67.5°	9628.8	9872.6	11368.8	13755.7	16689.5	18825.7	18877.3	17217.6	16646.8	15795.8	15317.2
70°	7007.1	7277.6	8783.7	11748.2	15892.9	19369.7	19428.2	17813.1	16682.5	14879.2	13075.9
72.5°	4232.9	4444.9	5686.4	8649.0	13413.8	18378.9	18482.9	17058.1	15231.0	12603.3	9655.6
75°	1858.8	1997.5	2749.6	4983.9	9603.1	15206.2	15336.1	14600.8	12375.4	9159.2	5707.1
77.5°	791.6	831.3	1127.5	2164.9	5428.8	10390.8	10569.2	10668.3	8396.2	4983.9	2411.7
80°	493.4	509.3	638.1	979.9	2540.5	5836.0	6028.2	6276.9	4169.4	1832.1	842.2
82.5°	300.2	318.0	424.0	592.6	1322.8	2645.5	2737.6	2913.0	1618.0	791.6	436.0
85°	180.3	193.2	259.6	374.6	753.1	1040.4	1039.4	1149.3	761.9	509.3	229.9
87.5°	86.2	96.1	138.7	194.2	379.5	390.4	365.6	414.2	462.7	333.9	115.9
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°	2949.7	2949.7	2949.7	2949.7	2949.7	2949.7	2949.7	2949.7	2949.7	2949.7	2949.7
2.5°	2947.7	2943.8	2930.8	2921.0	2919.0	2913.0	2908.1	2911.1	2915.0	2916.0	2916.0
5°	2946.8	2935.9	2919.0	2912.0	2921.0	2932.9	2947.7	2967.5	2979.5	2988.3	2994.3
7.5°	2994.3	2973.5	2954.7	2950.7	2968.6	3000.2	3034.0	3075.5	3104.3	3124.0	3128.0
10°	3073.5	3047.7	3028.9	3032.9	3064.6	3110.3	3157.8	3211.2	3254.8	3281.7	3283.6
12.5°	3164.7	3140.0	3122.1	3138.9	3191.5	3246.9	3296.5	3343.0	3382.7	3409.5	3409.5
15°	3269.7	3251.9	3231.1	3269.7	3341.1	3390.6	3411.4	3434.2	3456.0	3475.8	3471.9
17.5°	3370.8	3353.9	3343.0	3388.6	3462.9	3485.8	3471.9	3455.0	3455.0	3465.9	3467.9
20°	3458.0	3443.1	3450.1	3494.6	3533.3	3509.5	3458.0	3404.5	3382.7	3388.6	3394.6
22.5°	3534.3	3527.3	3548.2	3568.9	3541.2	3458.0	3362.9	3290.5	3263.8	3261.8	3263.8
25°	3623.4	3622.5	3648.2	3610.6	3487.7	3334.1	3206.3	3136.0	3121.2	3133.0	3152.8
27.5°	3734.4	3745.3	3758.2	3620.5	3378.7	3146.9	3017.1	2968.6	2983.4	3012.2	3031.0
30°	3876.1	3905.9	3878.1	3595.7	3222.1	2932.9	2809.0	2795.1	2835.7	2876.3	2896.2
32.5°	4013.9	4060.4	3993.1	3531.3	3020.1	2706.0	2609.8	2605.9	2655.4	2695.1	2722.8
35°	4124.8	4216.9	4079.2	3403.5	2786.2	2496.9	2426.5	2399.8	2417.6	2464.2	2495.9
37.5°	4269.5	4423.1	4138.7	3208.3	2532.6	2324.5	2242.2	2180.8	2164.9	2183.8	2199.7
40°	4534.0	4737.1	4166.4	2935.9	2284.8	2152.1	2068.9	1978.7	1916.3	1870.6	1871.7
42.5°	4966.0	5146.3	4148.6	2604.9	2055.9	1983.6	1889.6	1785.5	1684.4	1581.4	1573.5
45°	5667.5	5754.7	4095.1	2254.2	1854.8	1807.3	1719.1	1615.0	1480.3	1363.4	1352.5
47.5°	6790.1	6596.9	4011.9	1948.0	1677.4	1657.7	1576.4	1456.5	1313.9	1219.7	1211.8
50°	8321.0	7812.7	3971.3	1704.3	1520.9	1526.9	1460.5	1333.7	1198.9	1129.5	1121.6
52.5°	10152.0	9228.6	4049.5	1516.0	1395.1	1415.9	1366.4	1247.4	1134.5	1080.0	1072.1
55°	12051.4	10695.0	4133.7	1379.2	1276.2	1316.8	1300.0	1201.9	1099.8	1049.3	1042.3
57.5°	13677.4	11789.9	3965.3	1268.3	1170.2	1233.6	1248.5	1173.1	1082.0	1036.4	1028.5
60°	14700.9	12230.8	3523.4	1164.2	1085.9	1167.2	1218.7	1165.2	1088.9	1085.0	1079.0
62.5°	15186.4	12192.1	2860.5	1082.0	1033.5	1138.4	1240.5	1209.8	1168.2	1203.8	1206.8
65°	14968.4	11609.5	2130.3	1027.5	995.8	1149.3	1305.9	1294.0	1191.0	1226.7	1231.6
67.5°	13533.7	10219.4	1577.4	979.9	954.2	1180.1	1424.8	1321.8	1146.4	1172.2	1156.3
70°	10938.7	8101.9	1216.7	926.4	911.5	1176.1	1478.3	1304.9	1097.8	1103.8	1061.2
72.5°	7543.2	5524.8	989.9	876.9	850.1	1072.1	1440.6	1263.3	1057.2	1011.7	955.1
75°	4102.1	2965.6	841.2	825.4	742.2	941.3	1371.3	1233.6	1020.5	960.1	928.4
77.5°	1614.1	1230.6	730.2	755.0	649.0	831.3	1294.0	1177.1	970.0	890.7	874.9
80°	658.9	628.1	605.4	652.9	557.8	727.3	1200.9	1110.7	909.6	826.4	794.6
82.5°	373.6	390.4	470.6	515.2	452.8	669.8	1156.3	1057.2	837.3	740.1	702.5
85°	191.2	228.9	328.0	369.5	332.9	569.7	1065.1	925.4	671.7	566.8	569.7
87.5°	92.1	127.8	207.1	231.9	216.0	412.2	795.6	670.8	523.2	414.2	401.3
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)