

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: P319179

Luminaire Tested: **GLEON-SA5D-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319179
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-SA5D-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 28309 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

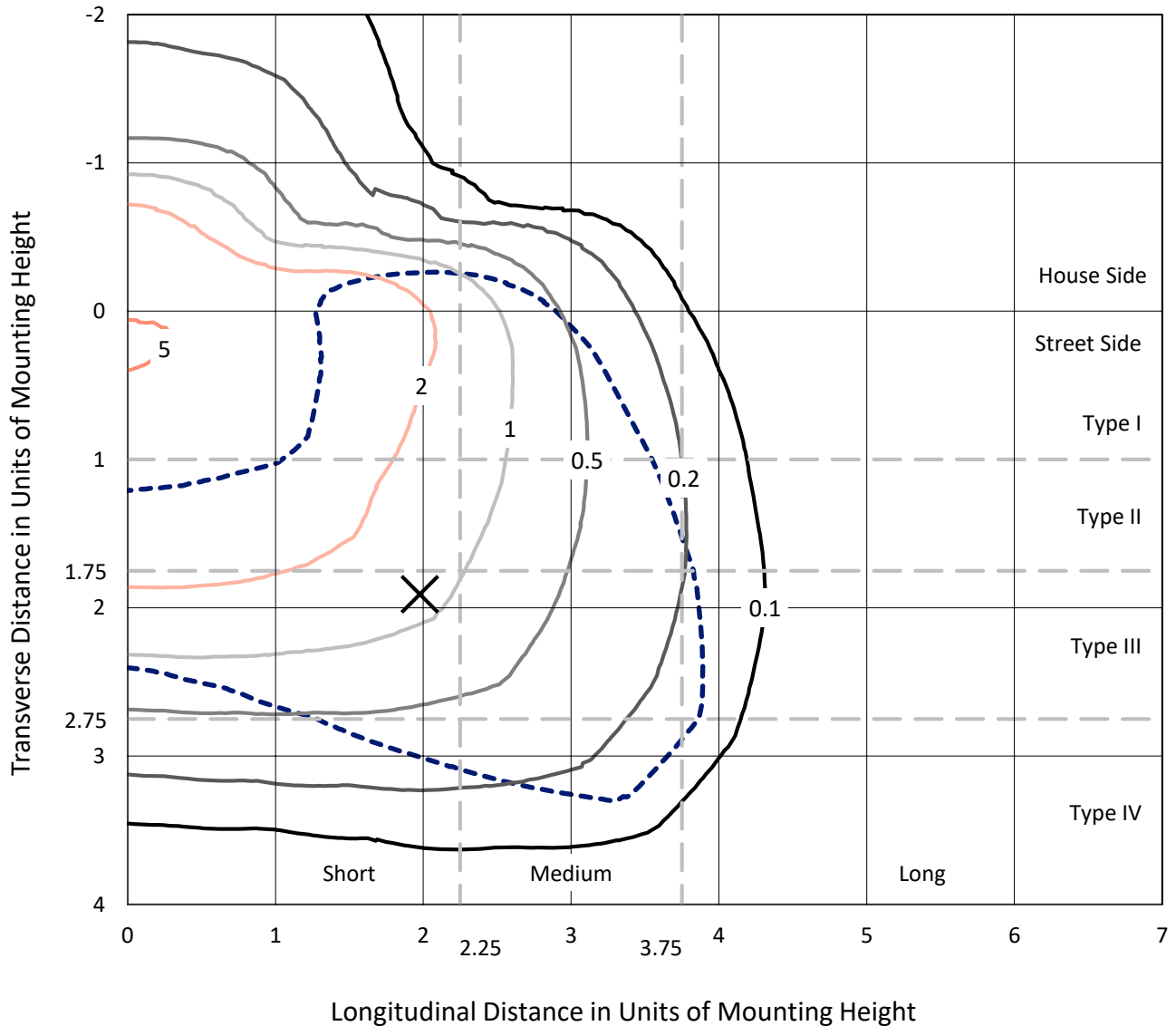
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

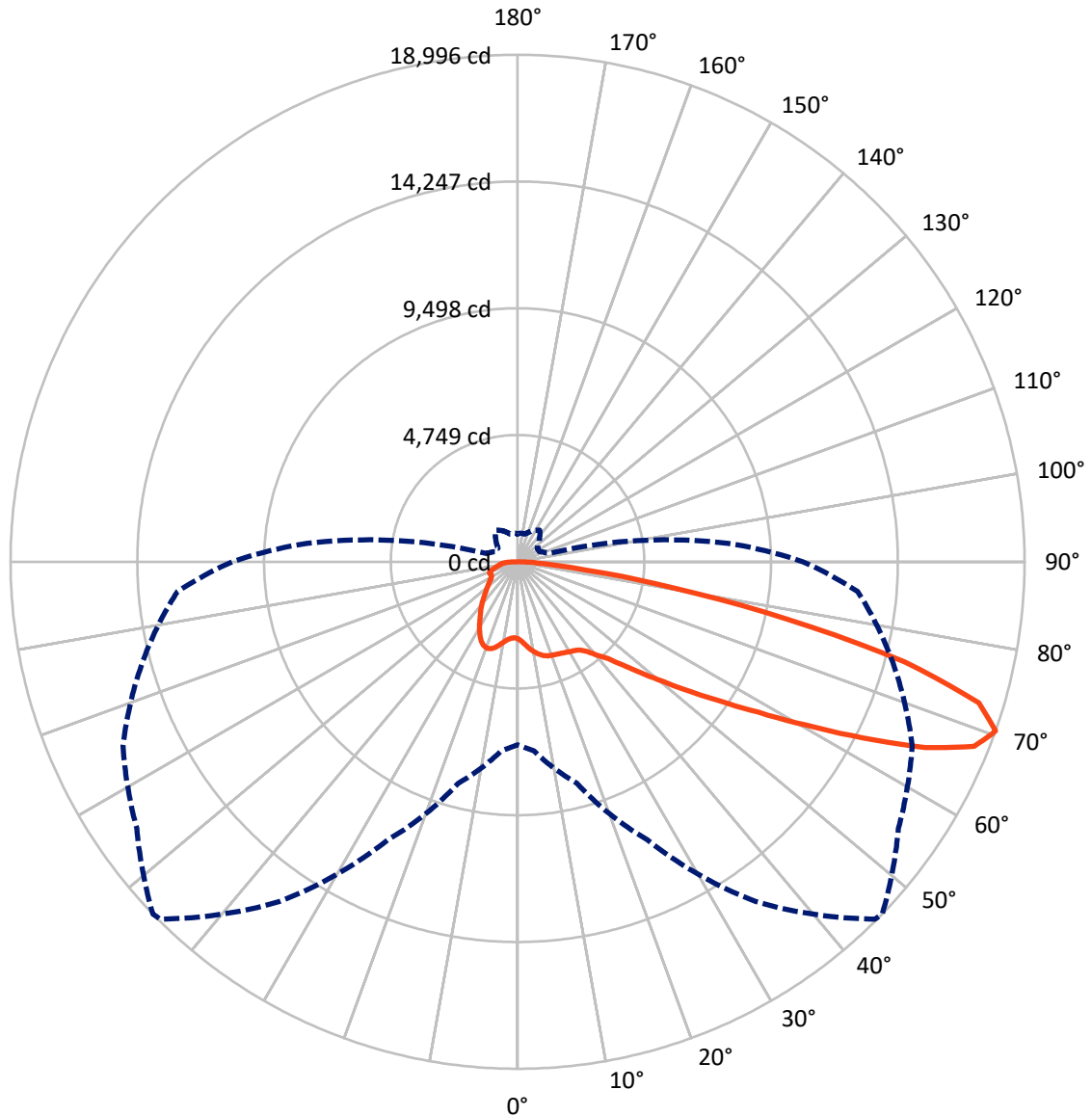
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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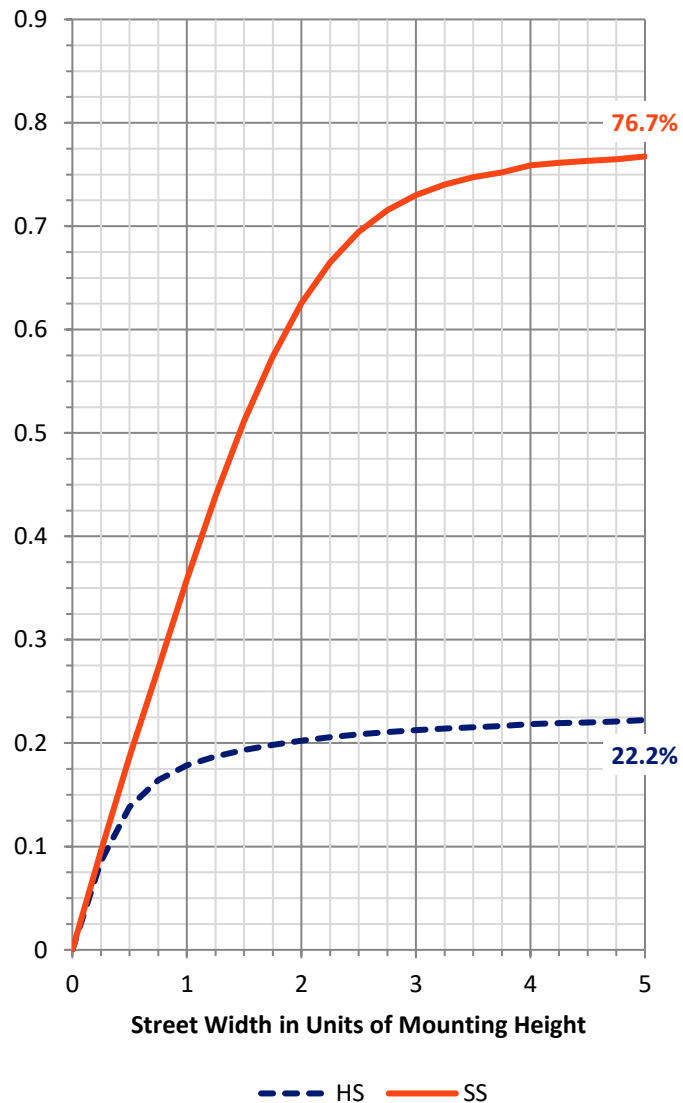
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6488.3	0.0	6488.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	21820.7	0.0	21820.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	28309.0	0.0	28309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	1.0
10°-20°	979.6	3.5
20°-30°	1633.3	5.8
30°-40°	2317.8	8.2
40°-50°	3409.3	12.0
50°-60°	5773.7	20.4
60°-70°	8195.7	29.0
70°-80°	4978.9	17.6
80°-90°	726.6	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°	28309.0	100.0
0°-180°	28309.0	100.0

Coefficient of Utilization

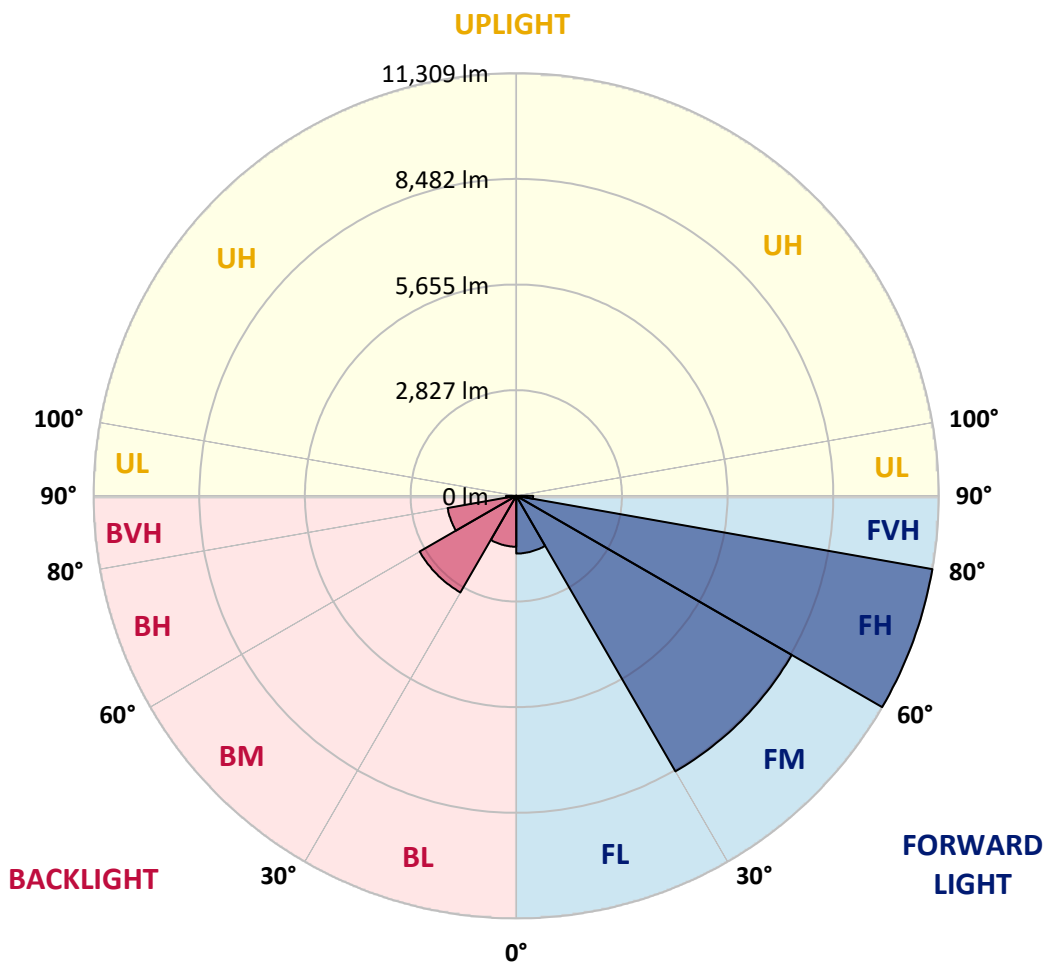


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1544.7	5.5			
FM (30°-60°)	8514.1	30.1			
FH (60°-80°)	11309.3	39.9			G4/12000
FVH (80°-90°)	452.6	1.6			G3/500
BL (0°-30°)	1362.2	4.8	B3/2500		
BM (30°-60°)	2986.8	10.6	B3/5000		
BH (60°-80°)	1865.3	6.6	B3/2500		G3/2500
BVH (80°-90°)	274.0	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°	2884.1	2884.1	2884.1	2884.1	2884.1	2884.1	2884.1	2884.1	2884.1	2884.1	2884.1
2.5°	3028.5	3030.4	3034.3	3024.6	2997.5	2989.7	2986.8	2958.7	2940.3	2913.2	2889.9
5°	3270.7	3272.6	3266.8	3239.7	3179.6	3135.1	3131.2	3067.2	3009.1	2947.1	2900.6
7.5°	3523.5	3526.5	3508.0	3456.7	3372.4	3294.9	3290.1	3202.9	3114.7	3020.7	2951.0
10°	3747.3	3735.7	3705.7	3634.0	3534.2	3439.3	3435.4	3344.3	3242.6	3129.2	3036.2
12.5°	3896.5	3886.8	3848.1	3760.9	3651.4	3564.2	3556.5	3472.2	3373.4	3249.4	3138.0
15°	3978.9	3985.7	3933.3	3834.5	3728.0	3654.3	3647.6	3587.5	3499.3	3374.3	3246.5
17.5°	3989.5	3995.4	3945.0	3847.1	3759.9	3709.6	3706.6	3666.9	3603.0	3482.9	3349.2
20°	3927.5	3931.4	3889.8	3809.3	3752.2	3736.7	3735.7	3718.3	3670.8	3564.2	3434.4
22.5°	3837.4	3840.3	3810.3	3752.2	3732.8	3757.0	3763.8	3757.0	3723.1	3623.3	3501.3
25°	3815.2	3813.2	3782.2	3723.1	3739.6	3790.9	3799.7	3802.6	3779.3	3692.1	3586.5
27.5°	3922.7	3915.9	3856.8	3761.9	3772.5	3834.5	3846.2	3874.3	3859.7	3783.2	3683.4
30°	4233.7	4222.1	4101.0	3909.1	3856.8	3888.8	3903.3	3947.9	3950.8	3886.8	3812.2
32.5°	4758.8	4744.2	4527.2	4184.3	3999.2	3944.0	3957.6	4024.4	4060.3	4010.9	3930.4
35°	5422.4	5405.9	5121.1	4652.2	4237.6	4049.6	4059.3	4112.6	4184.3	4114.5	4007.9
37.5°	6114.1	6074.4	5800.2	5202.5	4616.4	4275.3	4275.3	4282.1	4316.0	4170.7	4099.0
40°	6802.0	6762.3	6514.2	5849.6	5106.6	4630.9	4608.6	4458.4	4431.3	4306.3	4282.1
42.5°	7441.4	7429.8	7283.5	6581.1	5682.0	4980.6	4949.6	4694.8	4700.6	4623.1	4624.1
45°	8121.5	8121.5	8002.3	7319.3	6352.5	5542.5	5511.5	5136.6	5194.7	5158.9	5245.1
47.5°	8676.6	8694.1	8677.6	8088.6	7132.3	6256.5	6200.4	5748.9	5911.6	6034.7	6285.6
50°	9243.4	9270.5	9273.4	8932.4	8075.0	7105.2	7041.3	6561.7	6925.0	7277.7	7770.8
52.5°	10065.9	10126.9	9883.8	9774.3	9229.8	8112.8	8049.8	7607.1	8213.5	8708.6	9558.2
55°	10828.3	10775.1	10601.6	10669.5	10466.0	9259.8	9212.4	8823.9	9649.3	10292.6	11396.1
57.5°	11241.0	11237.2	11411.6	11702.2	11799.1	10674.3	10634.6	10256.7	11268.2	11751.6	13121.5
60°	11725.4	11732.2	12164.3	12824.1	13223.2	12435.6	12418.1	12131.4	12840.5	13113.7	14474.9
62.5°	11793.3	11915.3	12659.4	13794.8	14556.3	14493.3	14532.1	13820.0	14247.2	14200.7	15485.4
65°	11013.4	11174.2	12520.8	14088.4	15881.6	16743.9	16779.7	15518.3	15356.5	15129.8	15846.7
67.5°	9414.8	9653.2	11116.1	13449.9	16318.6	18407.3	18457.7	16834.9	16276.9	15444.7	14976.8
70°	6851.4	7115.9	8588.5	11487.1	15539.6	18939.2	18996.3	17417.2	16311.8	14548.5	12785.3
72.5°	4138.7	4346.1	5560.0	8456.7	13115.7	17970.4	18072.1	16678.9	14892.5	12323.2	9441.0
75°	1817.5	1953.1	2688.4	4873.1	9389.7	14868.3	14995.2	14276.3	12100.4	8955.6	5580.3
77.5°	774.1	812.8	1102.5	2116.8	5308.1	10159.9	10334.2	10431.1	8209.7	4873.1	2358.1
80°	482.5	498.0	623.9	958.1	2484.0	5706.3	5894.2	6137.4	4076.7	1791.3	823.5
82.5°	293.5	311.0	414.6	579.3	1293.4	2586.7	2676.8	2848.3	1582.1	774.1	426.3
85°	176.3	188.9	253.8	366.2	736.3	1017.2	1016.3	1123.8	745.0	498.0	224.8
87.5°	84.3	94.0	135.6	189.9	371.1	381.7	357.5	405.0	452.4	326.5	113.4
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°	2884.1	2884.1	2884.1	2884.1	2884.1	2884.1	2884.1	2884.1	2884.1	2884.1	2884.1
2.5°	2882.2	2878.3	2865.7	2856.0	2854.1	2848.3	2843.4	2846.3	2850.2	2851.2	2851.2
5°	2881.2	2870.6	2854.1	2847.3	2856.0	2867.7	2882.2	2901.6	2913.2	2921.9	2927.7
7.5°	2927.7	2907.4	2889.0	2885.1	2902.5	2933.5	2966.5	3007.2	3035.3	3054.6	3058.5
10°	3005.2	2980.0	2961.6	2965.5	2996.5	3041.1	3087.6	3139.9	3182.5	3208.7	3210.6
12.5°	3094.4	3070.1	3052.7	3069.2	3120.5	3174.8	3223.2	3268.7	3307.5	3333.7	3333.7
15°	3197.1	3179.6	3159.3	3197.1	3266.8	3315.3	3335.6	3357.9	3379.2	3398.6	3394.7
17.5°	3295.9	3279.4	3268.7	3313.3	3386.0	3408.3	3394.7	3378.2	3378.2	3388.9	3390.8
20°	3381.1	3366.6	3373.4	3417.0	3454.8	3431.5	3381.1	3328.8	3307.5	3313.3	3319.1
22.5°	3455.7	3448.9	3469.3	3489.6	3462.5	3381.1	3288.1	3217.4	3191.2	3189.3	3191.2
25°	3542.9	3542.0	3567.1	3530.3	3410.2	3260.0	3135.1	3066.3	3051.7	3063.4	3082.7
27.5°	3651.4	3662.1	3674.7	3540.0	3303.6	3076.9	2950.0	2902.5	2917.1	2945.2	2963.6
30°	3790.0	3819.0	3791.9	3515.8	3150.6	2867.7	2746.6	2733.0	2772.7	2812.4	2831.8
32.5°	3924.6	3970.2	3904.3	3452.8	2952.9	2645.8	2551.8	2548.0	2596.4	2635.2	2662.3
35°	4033.1	4123.2	3988.6	3327.8	2724.3	2441.4	2372.6	2346.4	2363.9	2409.4	2440.4
37.5°	4174.6	4324.7	4046.7	3137.0	2476.3	2272.8	2192.4	2132.3	2116.8	2135.2	2150.7
40°	4433.3	4631.9	4073.8	2870.6	2234.1	2104.2	2022.9	1934.7	1873.7	1829.1	1830.1
42.5°	4855.7	5032.0	4056.4	2547.0	2010.3	1939.5	1847.5	1745.8	1647.0	1546.2	1538.5
45°	5541.6	5626.8	4004.1	2204.0	1813.6	1767.1	1680.9	1579.2	1447.4	1333.1	1322.4
47.5°	6639.2	6450.3	3922.7	1904.7	1640.2	1620.8	1541.4	1424.1	1284.6	1192.6	1184.8
50°	8136.0	7639.0	3883.0	1666.3	1487.1	1492.9	1428.0	1304.0	1172.3	1104.4	1096.7
52.5°	9926.4	9023.5	3959.5	1482.3	1364.1	1384.4	1336.0	1219.7	1109.3	1056.0	1048.2
55°	11783.6	10457.3	4041.9	1348.6	1247.8	1287.5	1271.1	1175.2	1075.4	1026.0	1019.2
57.5°	13373.4	11527.8	3877.2	1240.1	1144.2	1206.2	1220.7	1147.1	1057.9	1013.4	1005.6
60°	14374.2	11958.9	3445.1	1138.3	1061.8	1141.3	1191.6	1139.3	1064.7	1060.8	1055.0
62.5°	14848.9	11921.1	2796.9	1057.9	1010.5	1113.2	1212.9	1182.9	1142.2	1177.1	1180.0
65°	14635.7	11351.5	2082.9	1004.7	973.6	1123.8	1276.9	1265.3	1164.5	1199.4	1204.2
67.5°	13232.9	9992.3	1542.3	958.1	933.0	1153.8	1393.1	1292.4	1120.9	1146.1	1130.6
70°	10695.6	7921.9	1189.7	905.8	891.3	1150.0	1445.5	1275.9	1073.4	1079.2	1037.6
72.5°	7375.5	5402.1	967.8	857.4	831.2	1048.2	1408.6	1235.2	1033.7	989.2	933.9
75°	4010.9	2899.6	822.5	807.0	725.6	920.4	1340.8	1206.2	997.9	938.8	907.8
77.5°	1578.2	1203.3	714.0	738.2	634.6	812.8	1265.3	1150.9	948.5	871.0	855.5
80°	644.3	614.2	591.9	638.4	545.4	711.1	1174.2	1086.0	889.4	808.0	777.0
82.5°	365.2	381.7	460.2	503.8	442.7	654.9	1130.6	1033.7	818.6	723.7	686.9
85°	187.0	223.8	320.7	361.4	325.5	557.1	1041.5	904.9	656.8	554.2	557.1
87.5°	90.1	125.0	202.5	226.7	211.2	403.0	778.0	655.9	511.5	405.0	392.4
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)