

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: P317557

Luminaire Tested: **GLEON-SA3B-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13362 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

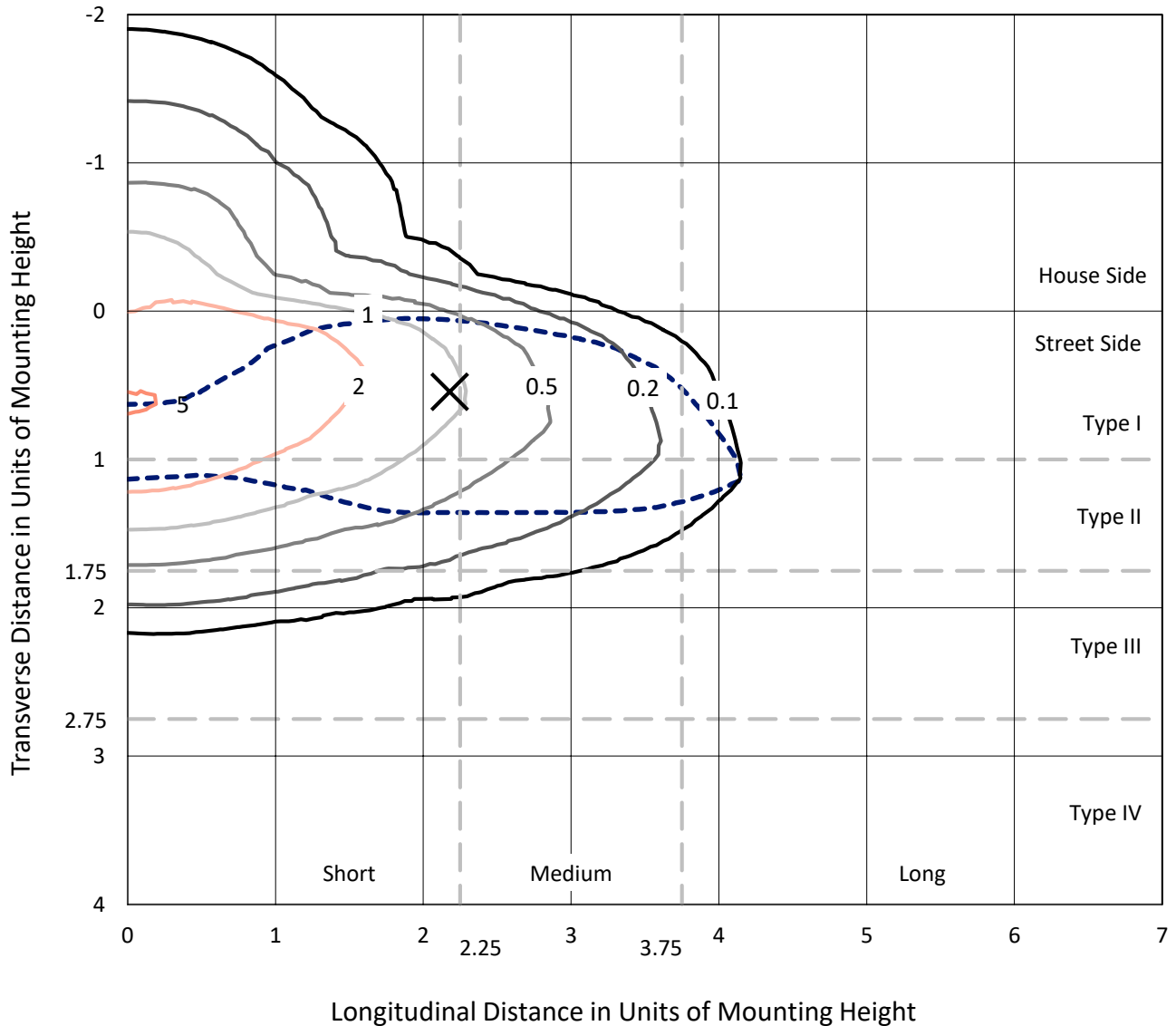
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

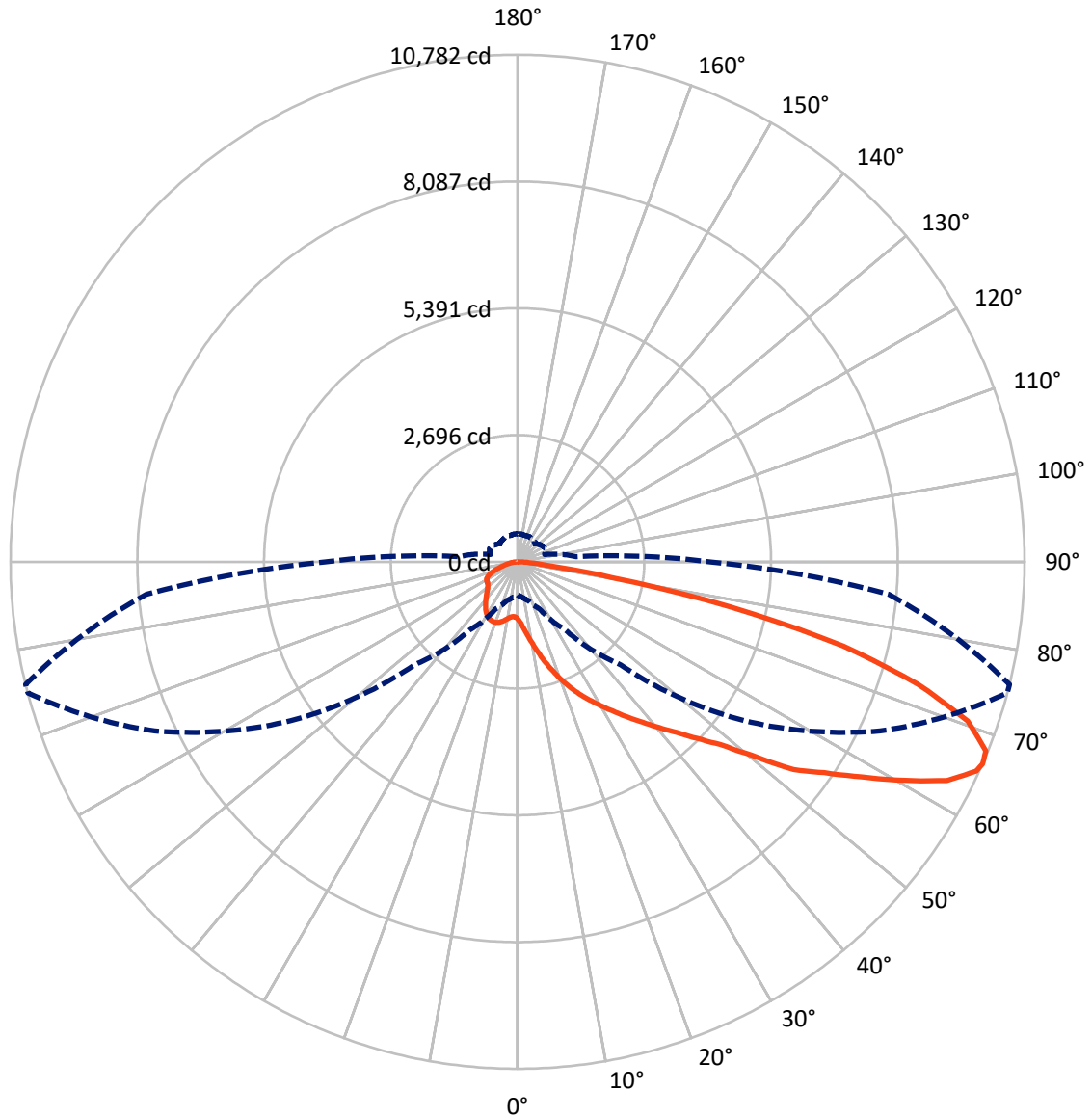
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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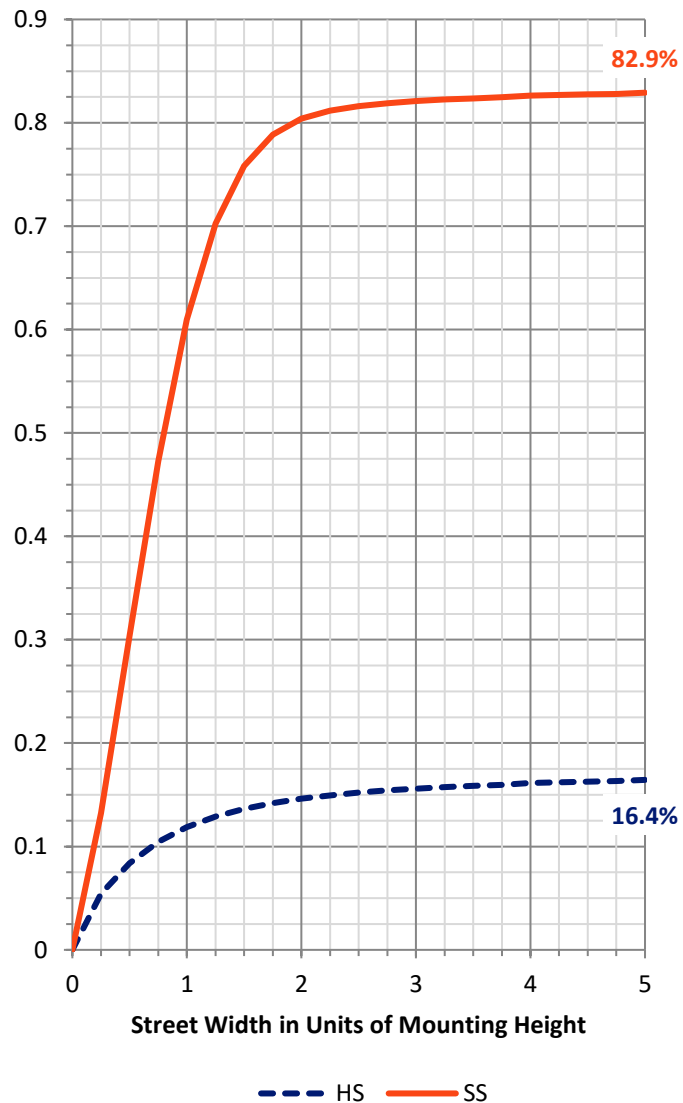
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2248.4	0.0	2248.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	11113.6	0.0	11113.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	13362.0	0.0	13362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	1.1
10°-20°	582.7	4.4
20°-30°	1132.3	8.5
30°-40°	1848.2	13.8
40°-50°	2525.2	18.9
50°-60°	2941.3	22.0
60°-70°	2636.9	19.7
70°-80°	1332.6	10.0
80°-90°	215.2	1.6
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°	13362.0	100.0
0°-180°	13362.0	100.0

Coefficient of Utilization



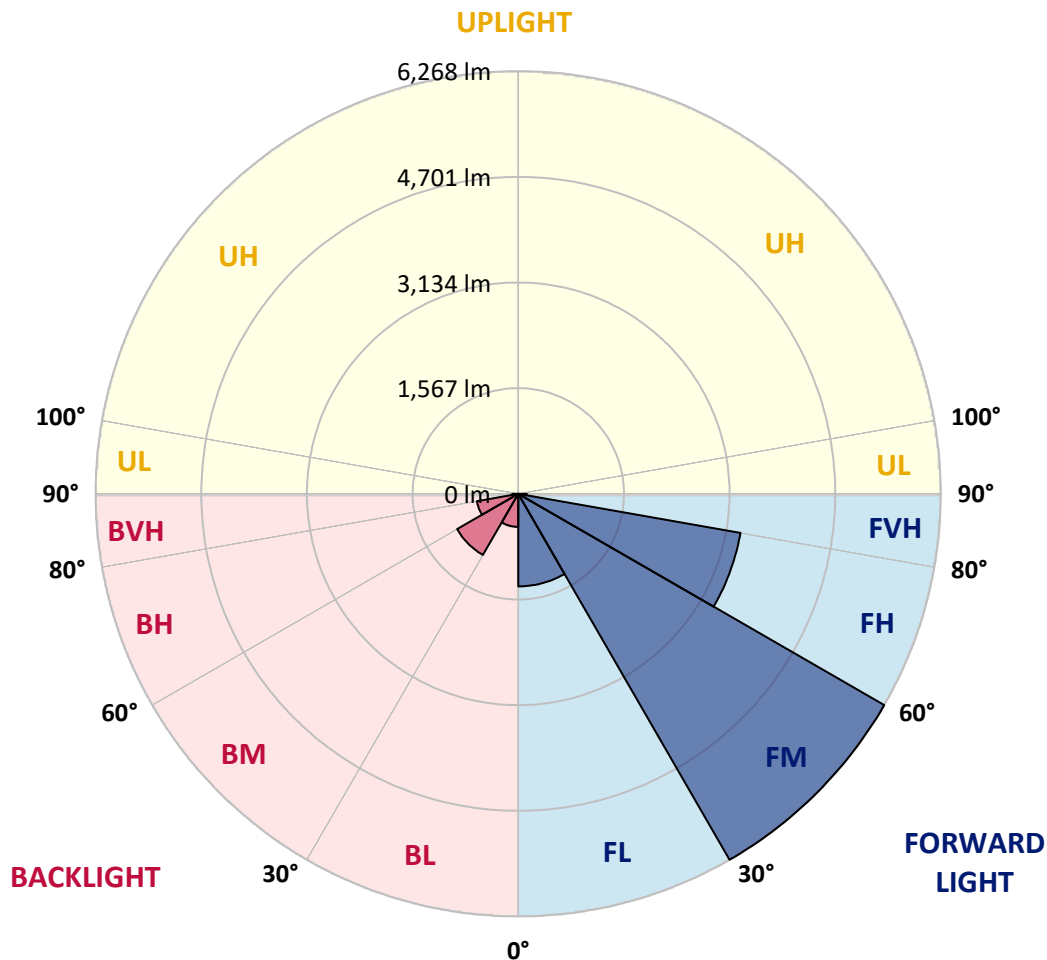
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1372.2	10.3			
FM (30°-60°)	6267.7	46.9			
FH (60°-80°)	3346.6	25.0			G2/5000
FVH (80°-90°)	127.1	1.0			G2/225
BL (0°-30°)	490.4	3.7	B1/500		
BM (30°-60°)	1047.0	7.8	B2/2500		
BH (60°-80°)	622.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	88.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3
2.5°	1619.9	1595.4	1593.1	1557.3	1549.1	1480.6	1430.3	1377.7	1317.8	1306.0	1258.8
5°	2080.8	2078.5	2047.2	1988.7	1942.9	1825.8	1710.2	1587.7	1453.4	1431.6	1325.5
7.5°	2495.4	2491.8	2467.7	2404.7	2338.4	2194.6	2029.5	1841.7	1624.0	1591.8	1415.8
10°	2810.2	2808.8	2800.7	2754.4	2698.2	2560.3	2377.9	2121.6	1822.2	1778.2	1528.7
12.5°	3053.4	3056.1	3061.5	3045.2	3018.4	2900.9	2714.0	2418.3	2033.6	1990.1	1654.4
15°	3218.0	3226.2	3254.3	3277.4	3291.5	3219.4	3038.4	2721.8	2270.4	2218.2	1793.6
17.5°	3301.0	3310.1	3358.6	3428.5	3492.9	3485.7	3341.9	3011.2	2497.7	2447.3	1943.3
20°	3372.7	3379.5	3433.9	3517.9	3631.7	3682.1	3601.3	3289.7	2746.7	2686.8	2102.1
22.5°	3580.5	3589.1	3605.4	3653.0	3753.7	3846.3	3807.3	3553.2	2974.9	2919.1	2252.7
25°	3981.5	3991.9	3956.5	3916.1	3935.2	3999.6	4006.9	3793.7	3206.2	3143.2	2414.6
27.5°	4464.6	4479.5	4419.2	4315.3	4224.6	4199.7	4191.0	3990.5	3427.1	3354.1	2574.8
30°	4937.7	4963.6	4885.1	4750.4	4583.9	4466.8	4380.2	4183.3	3644.9	3575.0	2725.8
32.5°	5400.0	5389.5	5275.7	5144.1	4949.1	4802.5	4593.0	4390.2	3889.8	3809.5	2876.0
35°	5716.6	5720.2	5614.5	5458.5	5272.5	5160.0	4877.8	4613.4	4139.8	4065.8	3046.5
37.5°	5986.0	5969.3	5849.5	5703.9	5543.8	5495.7	5211.2	4859.2	4410.6	4329.9	3228.0
40°	6075.9	6056.4	5977.9	5873.1	5744.7	5740.6	5579.1	5137.8	4716.8	4637.0	3432.6
42.5°	6021.4	5996.5	5964.3	5935.7	5896.2	5914.4	5924.8	5464.4	5053.4	4964.0	3669.4
45°	5820.5	5782.8	5805.5	5867.6	5953.4	6055.9	6236.9	5825.9	5430.3	5355.5	3947.4
47.5°	5511.5	5477.5	5548.3	5681.2	5914.4	6173.8	6532.2	6225.1	5880.3	5805.9	4343.5
50°	5077.0	5087.0	5188.1	5429.9	5782.4	6228.3	6896.0	6753.6	6534.5	6465.1	4883.7
52.5°	4363.9	4365.7	4650.6	5047.5	5548.3	6200.2	7097.9	7429.0	7427.7	7343.7	5398.1
55°	3701.6	3742.0	3967.4	4495.0	5169.1	6087.7	7239.0	7757.4	8014.2	7915.8	5877.6
57.5°	3054.7	3078.3	3292.0	3821.8	4627.9	5787.8	7383.7	8151.6	8690.1	8628.0	6473.7
60°	2318.9	2355.2	2576.1	3065.6	3935.7	5255.7	7397.3	8563.1	9498.0	9435.4	7139.2
62.5°	1505.1	1567.7	1774.6	2233.2	3098.3	4490.4	7081.5	8832.1	10263.7	10241.5	7729.8
65°	865.1	912.2	1056.0	1409.9	2137.5	3529.7	6330.8	8728.7	10735.0	10722.3	7950.7
66°	706.7	736.2	846.5	1101.9	1763.7	3099.6	5894.4	8510.5	10781.8	10782.2	7925.3
67.5°	565.2	578.4	627.8	788.9	1301.5	2456.8	5114.6	8029.2	10723.7	10739.6	7761.5
70°	467.7	474.5	489.9	528.9	710.4	1481.5	3630.4	6778.5	10140.8	10153.0	7122.4
72.5°	419.6	423.7	429.6	435.0	501.3	827.9	2217.3	5422.6	8891.1	8906.9	6148.4
75°	380.1	382.4	381.5	382.0	420.5	527.6	1145.9	4048.6	7189.1	7157.3	4710.0
77.5°	333.9	336.1	331.6	332.5	372.0	405.5	570.2	2834.3	4851.5	4627.4	2653.7
80°	282.2	284.0	282.2	285.3	323.9	306.2	331.6	1594.5	2145.2	2029.1	943.5
82.5°	213.2	220.9	226.4	239.1	266.7	217.7	221.8	621.0	653.2	621.9	289.4
85°	93.4	113.9	170.6	182.8	200.5	130.6	145.6	253.1	265.8	257.7	105.2
87.5°	24.5	26.8	84.4	106.1	111.1	59.0	75.8	115.2	121.6	115.2	34.9
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°	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3
2.5°	1233.9	1211.6	1171.7	1136.3	1109.6	1091.4	1073.3	1064.2	1058.8	1053.3	1054.2
5°	1273.3	1228.4	1159.9	1111.4	1084.2	1066.9	1057.9	1054.2	1052.0	1046.5	1046.5
7.5°	1332.8	1269.2	1174.9	1125.0	1103.7	1090.5	1085.1	1083.3	1080.5	1074.2	1075.1
10°	1407.6	1318.7	1206.2	1157.7	1138.1	1123.6	1115.9	1113.2	1108.2	1100.9	1101.9
12.5°	1495.6	1379.9	1247.5	1196.7	1173.1	1153.6	1140.9	1133.2	1124.5	1115.0	1115.5
15°	1591.8	1446.6	1291.9	1231.6	1199.4	1172.2	1151.8	1138.6	1125.0	1113.2	1112.7
17.5°	1689.3	1511.0	1325.9	1250.6	1207.1	1171.3	1143.6	1123.2	1106.4	1091.9	1090.5
20°	1794.5	1569.1	1345.0	1248.8	1192.6	1149.9	1113.2	1087.8	1069.2	1054.7	1052.4
22.5°	1901.6	1623.5	1348.2	1230.2	1160.4	1108.2	1069.6	1041.5	1022.5	1007.5	1002.1
25°	1999.6	1665.7	1335.0	1194.4	1115.5	1059.2	1021.6	993.0	977.6	959.9	954.4
27.5°	2088.9	1695.2	1308.7	1148.6	1065.1	1009.8	974.4	949.9	933.1	919.5	915.0
30°	2169.2	1711.1	1265.6	1094.1	1013.4	963.0	933.1	916.3	901.8	884.6	881.4
32.5°	2245.4	1711.1	1210.3	1034.7	962.1	921.8	904.1	893.6	877.3	860.5	856.0
35°	2321.7	1700.6	1145.0	972.6	915.0	892.3	891.4	879.1	854.2	831.5	825.6
37.5°	2401.9	1679.3	1071.5	914.5	876.4	879.1	886.8	859.6	824.2	792.0	783.4
40°	2492.7	1649.8	995.3	864.2	844.2	873.2	874.6	831.5	762.5	733.1	725.3
42.5°	2599.3	1620.3	924.5	819.7	818.8	855.5	851.5	770.7	729.4	714.5	710.4
45°	2739.4	1603.6	857.4	777.5	798.8	827.0	812.0	737.1	719.9	711.3	707.7
47.5°	2960.4	1612.2	795.7	743.9	778.9	798.4	738.5	723.5	711.3	700.9	697.2
50°	3237.1	1607.2	745.8	720.8	756.2	768.4	705.4	705.8	699.5	687.7	682.3
52.5°	3445.3	1568.2	713.6	707.7	736.2	715.4	684.5	688.6	685.4	668.2	662.3
55°	3646.2	1534.6	697.2	702.7	721.7	649.1	660.0	670.0	666.8	650.0	647.3
57.5°	3896.2	1528.3	687.2	704.0	709.5	616.0	636.4	649.6	647.3	640.1	638.7
60°	4202.4	1530.1	678.2	706.3	695.9	591.5	614.2	631.0	632.4	631.0	630.1
62.5°	4370.7	1480.6	655.5	699.9	671.8	570.2	591.1	615.6	616.0	618.7	618.3
65°	4227.8	1332.8	613.3	677.7	631.4	552.5	571.1	597.9	591.1	603.3	603.3
66°	4089.0	1247.5	592.4	663.2	614.2	545.7	564.8	588.8	580.2	597.0	597.0
67.5°	3805.5	1103.7	554.8	632.4	589.7	536.2	557.5	573.8	562.0	587.0	585.2
70°	3287.4	853.7	479.0	562.5	549.3	522.1	547.5	543.9	526.7	564.8	557.5
72.5°	2771.7	648.7	384.7	470.9	488.1	504.4	533.5	505.8	484.0	510.8	494.9
75°	2150.6	487.6	303.9	366.1	412.3	476.8	516.7	461.8	430.5	427.8	419.1
77.5°	1162.6	334.8	240.9	279.4	327.5	442.3	505.3	414.6	367.4	356.5	349.7
80°	460.4	217.7	175.1	211.8	229.1	392.4	478.1	359.7	303.0	292.1	281.7
82.5°	190.1	128.8	113.0	142.0	149.2	335.7	429.1	294.9	234.1	323.9	343.8
85°	81.7	70.8	67.1	73.5	84.4	235.4	341.6	225.0	252.7	225.5	179.2
87.5°	24.5	29.9	28.6	28.1	30.8	56.2	181.9	125.2	185.5	70.3	52.6
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)