

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: P382938

Luminaire Tested: **GLEON-SA3A-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13597.8 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

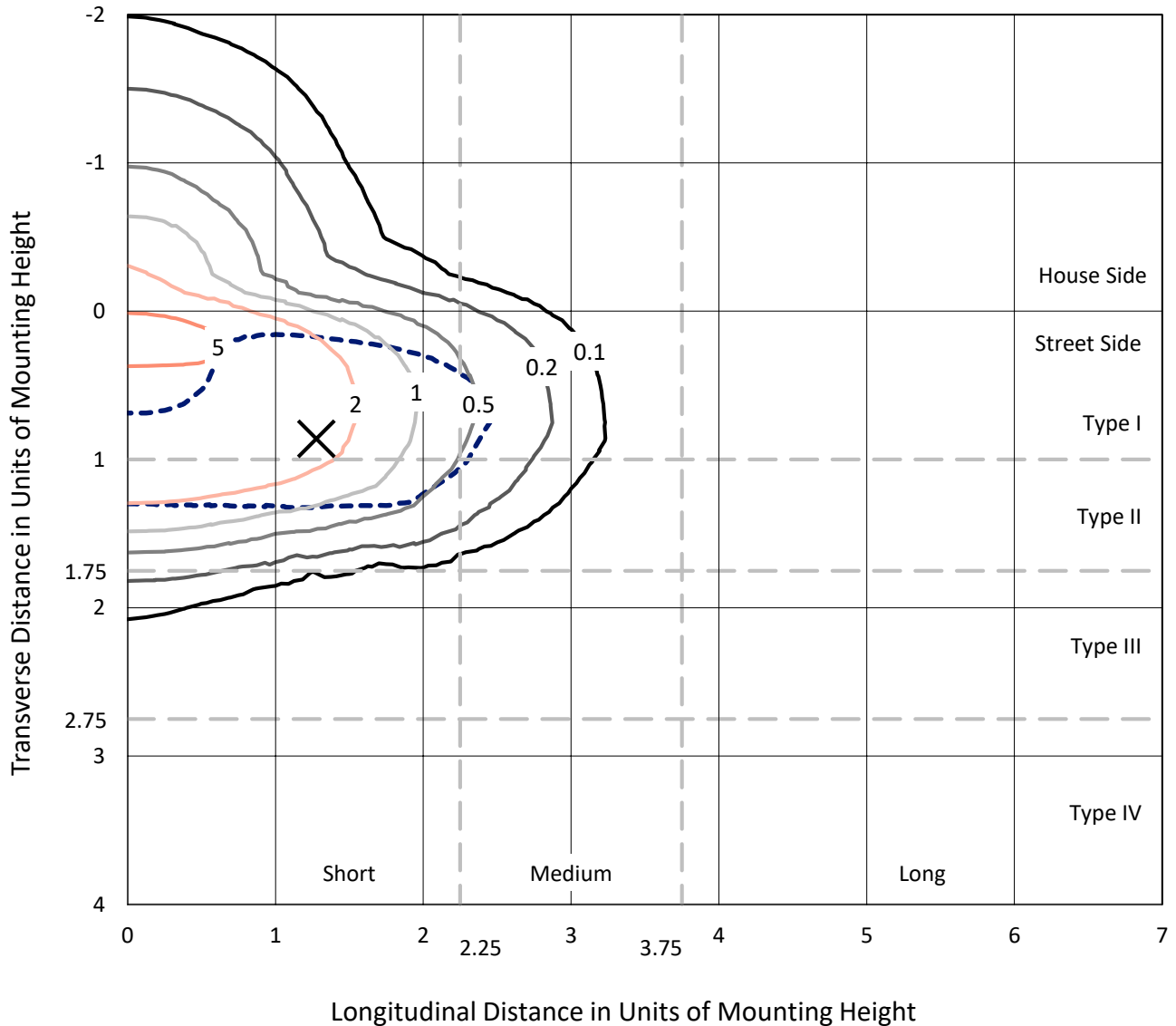
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

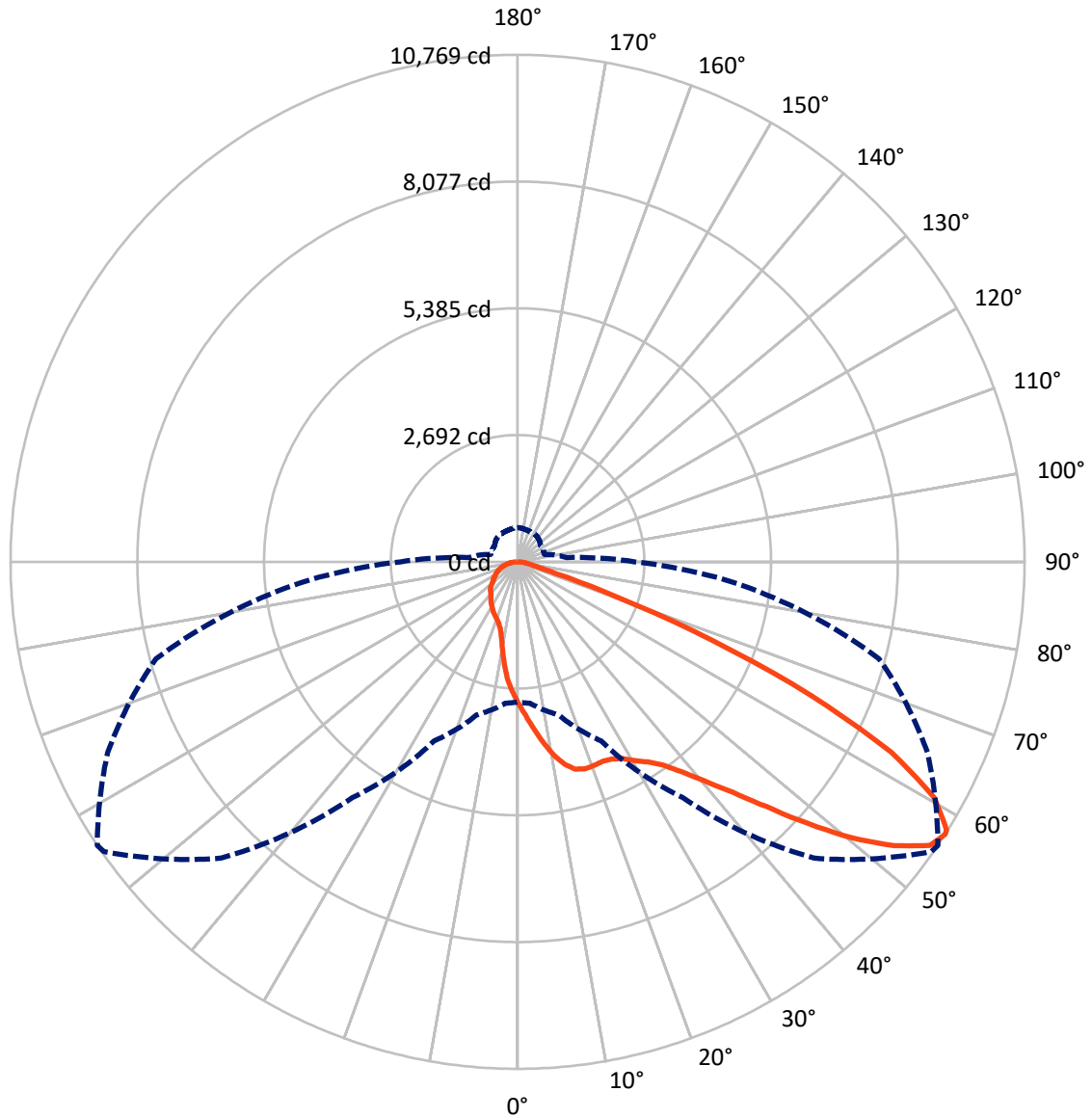
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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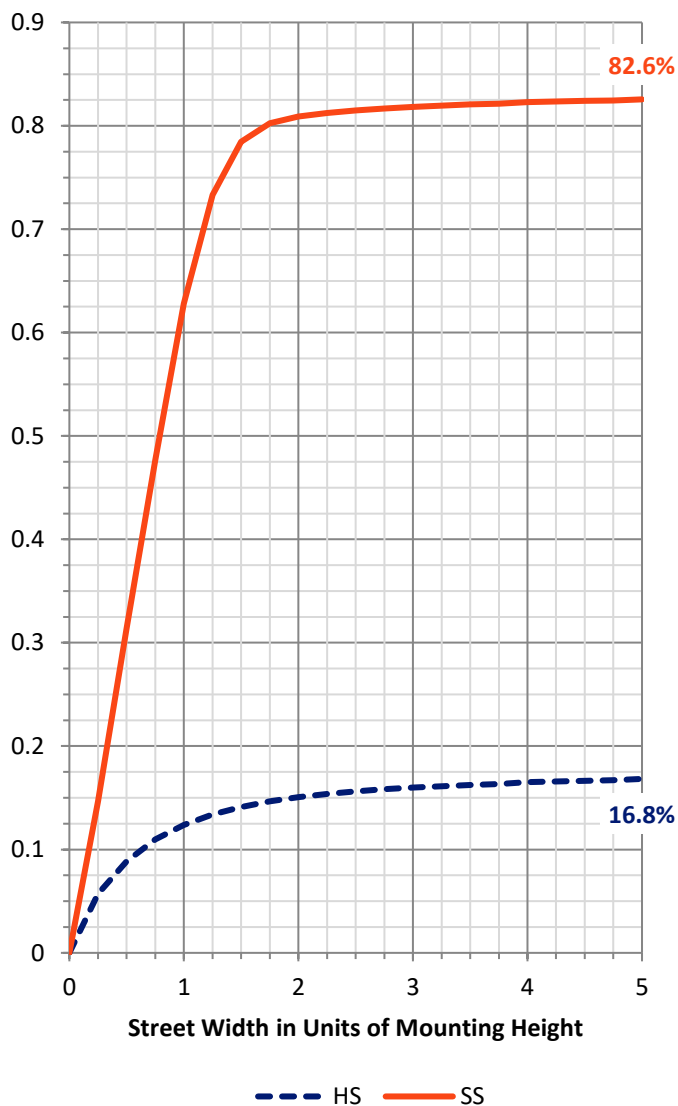
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2344.0	0.0	2344.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	11253.8	0.0	11253.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	13597.8	0.0	13597.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.1	2.1
10°-20°	814.5	6.0
20°-30°	1326.7	9.8
30°-40°	1983.3	14.6
40°-50°	3008.3	22.1
50°-60°	3371.7	24.8
60°-70°	1991.5	14.6
70°-80°	652.5	4.8
80°-90°	161.2	1.2
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°	13597.8	100.0
0°-180°	13597.8	100.0

Coefficient of Utilization

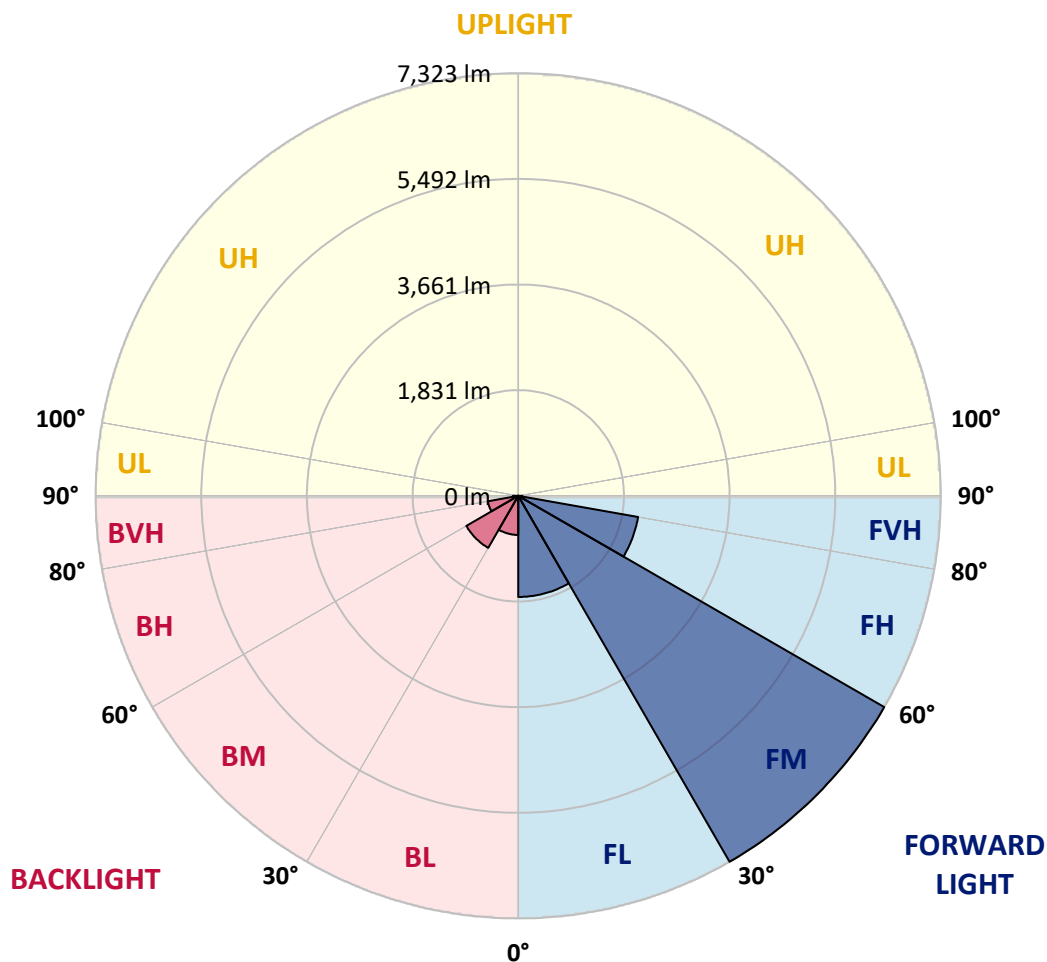


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1751.6	12.9			
FM (30°-60°)	7322.9	53.9			
FH (60°-80°)	2108.4	15.5			G2/5000
FVH (80°-90°)	71.0	0.5			G1/100
BL (0°-30°)	677.8	5.0	B2/1000		
BM (30°-60°)	1040.4	7.7	B2/2500		
BH (60°-80°)	535.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	90.2	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°	56°	65°	75°	85°
0°	3016.0	3016.0	3016.0	3016.0	3016.0	3016.0	3016.0	3016.0	3016.0	3016.0	3016.0
2.5°	3463.2	3495.0	3481.0	3432.4	3395.0	3342.2	3283.3	3265.5	3203.4	3133.7	3050.1
5°	4011.3	3995.5	3972.6	3896.8	3817.0	3724.0	3576.3	3552.9	3414.6	3257.2	3090.8
7.5°	4323.5	4322.1	4308.6	4264.2	4191.3	4069.7	3891.7	3864.2	3655.3	3402.0	3144.1
10°	4278.2	4275.0	4297.3	4343.6	4365.6	4340.4	4190.4	4162.8	3906.3	3562.3	3205.7
12.5°	4020.7	4022.6	4058.6	4155.7	4288.0	4446.9	4422.6	4409.0	4166.5	3743.6	3280.5
15°	3820.3	3824.5	3853.0	3937.6	4093.6	4381.9	4563.7	4568.4	4418.4	3943.6	3367.9
17.5°	3732.4	3741.3	3754.3	3813.7	3956.7	4252.5	4597.4	4622.6	4638.9	4151.1	3452.0
20°	3760.5	3768.9	3772.6	3810.4	3927.7	4174.0	4574.0	4619.4	4808.1	4346.4	3536.2
22.5°	3886.1	3891.3	3893.6	3903.5	3994.6	4196.4	4558.6	4606.2	4930.6	4521.6	3599.7
25°	4094.5	4090.8	4075.9	4063.2	4124.4	4285.2	4594.1	4639.4	5030.1	4680.6	3641.2
27.5°	4344.1	4339.4	4310.5	4275.9	4310.9	4423.5	4696.4	4732.4	5119.3	4829.1	3662.3
30°	4643.7	4631.5	4576.8	4535.7	4549.2	4631.0	4865.1	4897.9	5257.2	4997.8	3682.9
32.5°	4989.9	4976.8	4897.9	4829.6	4829.6	4897.9	5039.0	5066.1	5374.0	5188.5	3716.0
35°	5423.6	5407.3	5304.4	5189.9	5157.7	5192.3	5275.9	5295.1	5584.3	5428.7	3776.3
37.5°	5934.8	5912.8	5779.7	5626.4	5555.8	5554.0	5614.3	5653.5	5920.4	5744.1	3878.7
40°	6447.4	6432.1	6315.7	6195.1	6056.7	6012.4	6105.4	6117.6	6359.6	6135.7	4009.5
42.5°	6843.7	6840.9	6819.4	6835.3	6693.7	6604.0	6676.9	6686.7	6896.1	6559.6	4148.7
45°	7053.1	7057.8	7161.9	7392.9	7445.1	7379.7	7415.7	7418.5	7509.2	6987.2	4276.4
47.5°	6885.3	6909.6	7173.2	7689.6	8118.1	8335.4	8275.6	8310.1	8103.6	7354.5	4376.3
50°	6231.6	6261.5	6710.0	7557.3	8432.1	9260.1	9228.8	9220.9	8583.0	7623.7	4430.5
52.5°	5421.7	5445.1	5815.2	6869.9	8201.7	9771.4	10058.8	10017.7	9009.2	7825.1	4440.8
55°	4188.5	4224.9	4579.6	5497.9	7269.9	9576.0	10669.1	10632.2	9397.5	7930.6	4428.7
57°	2977.7	3016.0	3368.4	4196.0	6115.7	8899.9	10729.8	10769.1	9607.4	7948.4	4442.3
57.5°	2657.1	2696.4	3045.4	3849.2	5755.8	8655.5	10677.5	10743.0	9645.2	7945.6	4449.7
60°	1337.9	1352.9	1575.3	2148.7	3638.4	6997.5	9994.8	10163.5	9679.3	7808.2	4482.0
62.5°	831.8	821.1	814.1	989.8	1770.1	4640.4	8585.9	8910.6	9026.5	7475.5	4403.9
65°	731.4	711.2	634.1	620.1	781.8	2253.8	6465.7	6869.9	7631.6	6951.2	4218.0
67.5°	686.9	667.4	580.4	528.1	528.6	893.4	4014.1	4469.3	5945.0	6064.7	3779.1
70°	641.2	623.4	542.1	480.4	450.0	494.8	1846.8	2192.1	3875.4	4767.0	3158.5
72.5°	582.3	570.1	493.0	429.4	397.2	370.6	707.0	835.0	2243.5	3201.5	2193.5
75°	520.5	509.4	443.5	382.7	343.5	291.6	398.1	429.0	1139.7	1637.9	1079.9
77.5°	452.8	446.3	394.4	338.3	307.0	241.6	281.8	296.7	488.8	702.4	541.6
80°	360.3	372.9	344.9	301.4	272.5	193.5	199.5	209.3	284.6	343.0	307.5
82.5°	234.6	256.5	270.1	244.9	224.3	152.3	143.5	147.7	185.6	209.3	133.7
85°	97.6	109.8	177.6	160.3	149.0	111.2	96.2	98.1	115.0	119.1	54.7
87.5°	43.5	46.3	78.1	73.4	63.1	38.3	41.1	44.9	61.2	57.9	21.1
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°	3016.0	3016.0	3016.0	3016.0	3016.0	3016.0	3016.0	3016.0	3016.0	3016.0	3016.0
2.5°	3018.8	2979.6	2912.3	2838.0	2777.2	2728.6	2679.5	2645.9	2606.7	2585.6	2574.9
5°	3021.1	2944.1	2802.5	2657.1	2527.2	2408.5	2295.4	2208.5	2127.2	2083.2	2071.1
7.5°	3031.0	2915.1	2686.1	2446.8	2216.0	2005.2	1842.6	1740.7	1667.4	1634.7	1625.3
10°	3038.9	2881.0	2542.2	2187.9	1873.9	1660.4	1534.2	1477.2	1451.9	1447.7	1443.5
12.5°	3057.6	2845.9	2390.7	1917.9	1608.0	1460.3	1416.4	1412.7	1419.7	1429.9	1429.9
15°	3087.1	2811.3	2217.8	1686.0	1438.9	1387.0	1395.8	1416.4	1435.6	1451.4	1453.8
17.5°	3108.6	2768.8	2031.9	1500.5	1348.7	1362.7	1394.4	1423.4	1443.1	1458.4	1459.8
20°	3123.9	2702.9	1833.3	1358.9	1296.8	1340.2	1380.0	1405.7	1419.2	1434.7	1437.0
22.5°	3116.0	2614.6	1657.0	1257.5	1254.7	1307.5	1345.3	1376.2	1365.9	1351.0	1360.8
25°	3077.6	2493.1	1475.8	1181.9	1210.4	1263.6	1310.3	1289.7	1255.2	1248.6	1252.4
27.5°	3009.5	2337.9	1308.0	1111.7	1158.9	1222.9	1220.1	1199.6	1187.4	1179.1	1184.2
30°	2936.1	2169.7	1161.3	1050.5	1101.9	1154.7	1143.9	1143.5	1131.4	1117.8	1124.4
32.5°	2863.7	2000.5	1044.9	1000.0	1058.9	1066.0	1089.3	1096.3	1072.5	1044.0	1042.1
35°	2800.6	1840.7	956.6	954.3	1007.0	1008.0	1042.1	1032.2	972.9	943.5	943.5
37.5°	2753.4	1681.4	889.3	913.1	938.8	963.1	980.5	939.7	930.0	913.6	913.1
40°	2732.8	1541.2	847.2	881.8	890.7	921.5	877.1	893.0	897.7	889.3	889.3
42.5°	2711.4	1419.2	810.8	858.0	856.6	852.4	829.9	850.5	869.2	869.7	868.3
45°	2689.8	1314.0	778.5	807.0	826.7	781.4	785.6	807.5	833.6	843.1	843.1
47.5°	2666.0	1230.9	749.1	753.3	783.7	753.3	750.0	766.8	797.7	812.7	815.9
50°	2613.6	1156.1	715.4	706.1	714.5	724.8	727.6	735.5	769.6	793.5	799.1
52.5°	2541.3	1089.3	672.5	662.6	662.6	701.5	714.5	716.8	745.8	774.3	779.9
55°	2480.9	1046.8	628.0	626.2	624.3	676.7	699.1	702.9	722.9	745.3	748.1
57°	2485.2	1043.5	594.0	595.8	595.4	651.4	684.6	692.5	702.9	721.9	725.3
57.5°	2487.5	1045.8	586.5	587.4	587.0	644.4	680.4	689.3	697.3	717.3	720.6
60°	2522.5	1051.9	556.1	545.8	548.1	607.0	656.6	667.8	672.9	699.6	703.8
62.5°	2470.7	1024.8	531.8	507.0	507.0	567.8	623.4	641.2	649.1	685.1	692.0
65°	2320.2	948.6	503.3	463.1	467.7	528.6	583.7	612.7	624.8	669.7	677.1
67.5°	2088.0	860.3	472.9	423.9	428.5	487.4	542.5	573.8	593.0	652.8	658.9
70°	1785.6	752.4	431.8	382.2	387.9	442.6	493.9	529.5	558.0	636.9	638.9
72.5°	1316.4	616.9	374.3	336.5	342.5	390.2	444.9	486.0	524.3	597.2	596.3
75°	782.8	482.3	310.8	290.2	294.4	338.8	400.5	450.5	508.0	581.8	590.7
77.5°	474.8	363.1	253.3	243.0	248.2	293.4	368.7	422.0	501.0	548.6	545.8
80°	286.9	259.3	202.3	195.8	200.9	251.0	341.1	400.5	437.8	468.8	468.8
82.5°	150.0	158.5	148.6	143.5	150.4	203.7	310.3	349.5	387.0	332.3	310.3
85°	61.2	82.7	90.2	89.7	93.9	141.1	267.7	299.1	249.6	236.9	242.6
87.5°	20.6	35.0	44.0	37.8	39.7	88.8	185.6	144.4	171.5	119.6	113.6
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)