

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: P382954

Luminaire Tested: **GLEON-SA3A-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
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-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9657.3 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

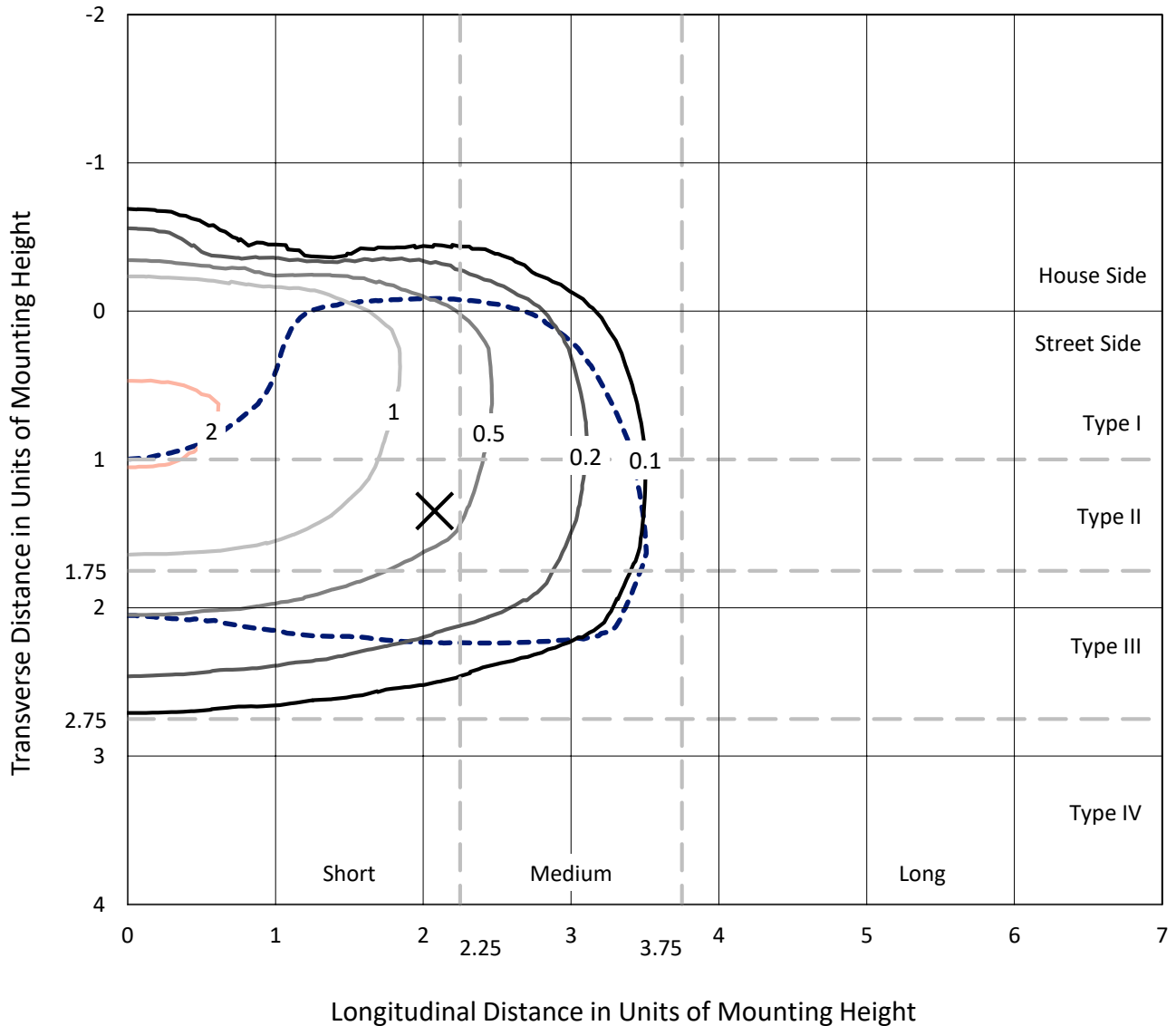
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

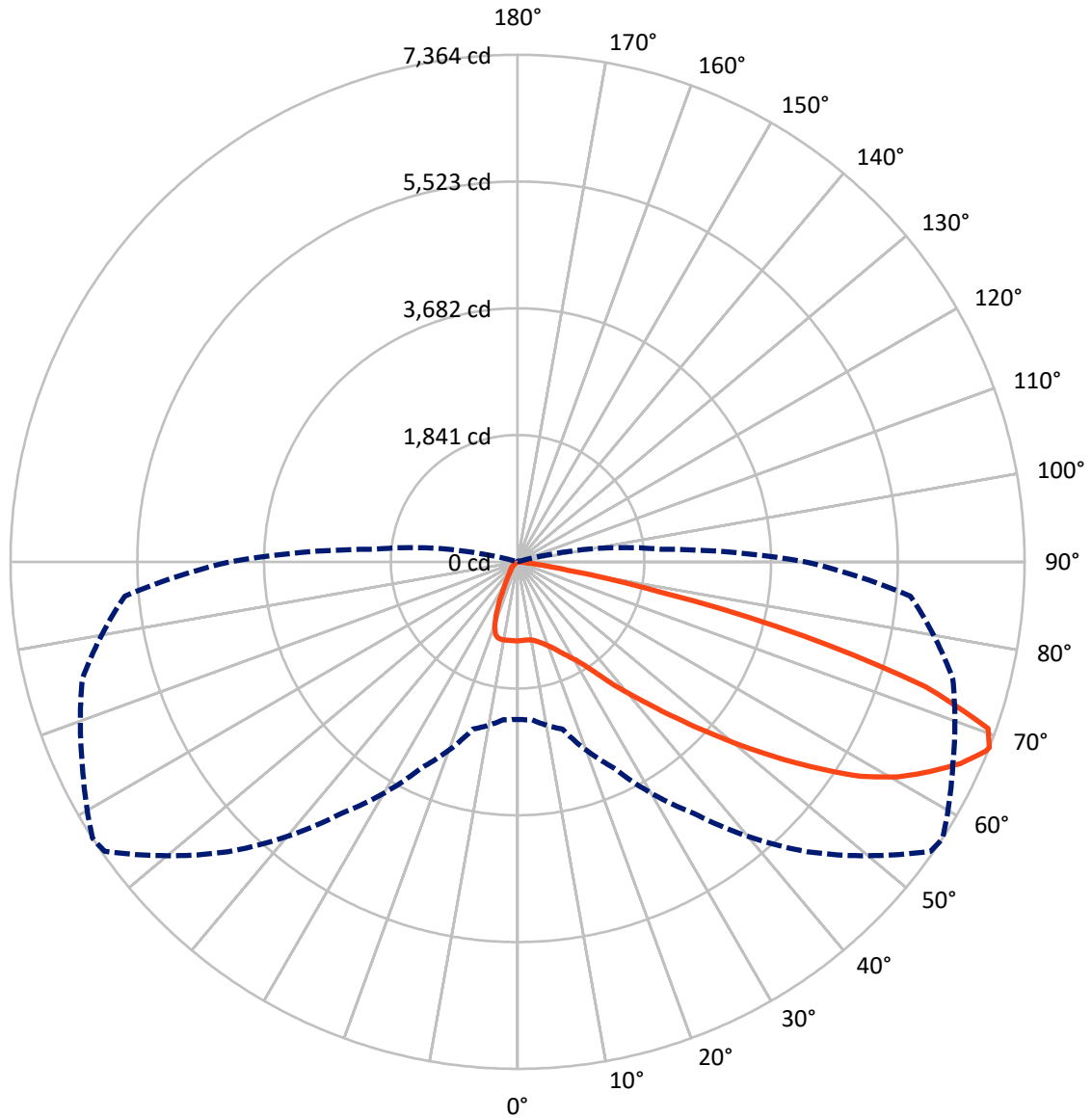
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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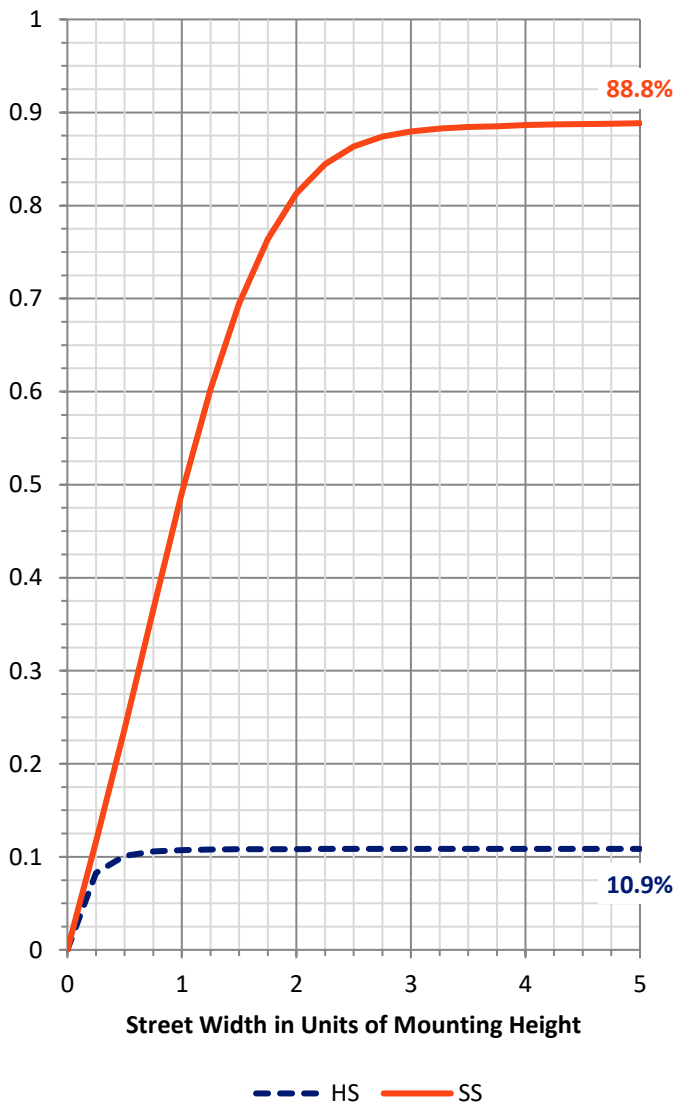
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1059.0	0.0	1059.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	8598.4	0.0	8598.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	9657.3	0.0	9657.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	1.1
10°-20°	297.6	3.1
20°-30°	513.4	5.3
30°-40°	886.1	9.2
40°-50°	1515.6	15.7
50°-60°	2424.9	25.1
60°-70°	2801.7	29.0
70°-80°	1070.6	11.1
80°-90°	40.1	0.4
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°	9657.3	100.0
0°-180°	9657.3	100.0

Coefficient of Utilization

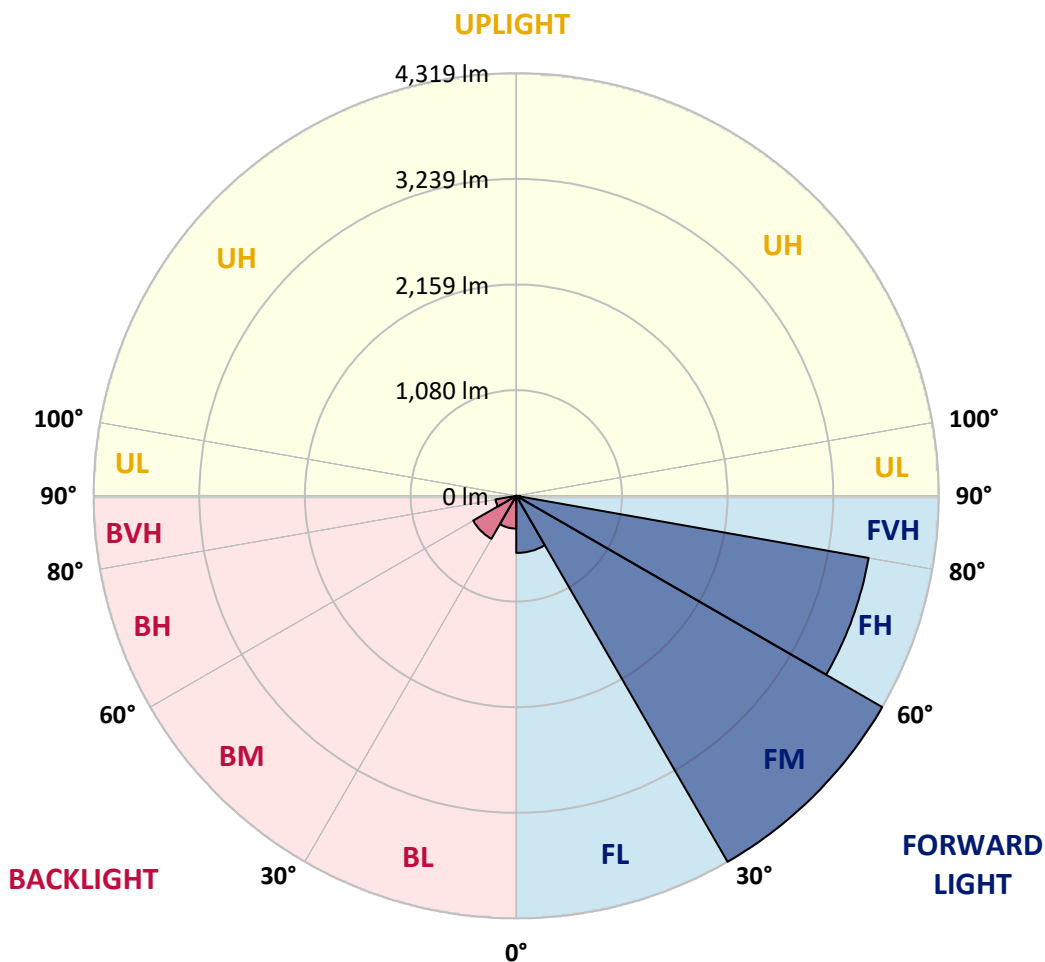


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.7	6.0			
FM (30°-60°)	4318.7	44.7			
FH (60°-80°)	3656.6	37.9			G2/5000
FVH (80°-90°)	39.4	0.4			G1/100
BL (0°-30°)	334.7	3.5	B1/500		
BM (30°-60°)	507.9	5.3	B1/1000		
BH (60°-80°)	215.7	2.2	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1120.7	1125.6	1129.3	1131.6	1134.3	1140.2	1142.1	1144.8	1146.2	1146.2	1149.3
5°	1076.3	1081.8	1089.5	1096.0	1108.7	1125.2	1137.0	1141.6	1149.8	1157.2	1161.3
7.5°	1035.2	1041.6	1050.8	1065.8	1087.8	1114.2	1138.9	1145.2	1161.3	1176.7	1184.6
10°	1008.8	1013.7	1025.6	1047.1	1075.8	1112.8	1147.6	1155.3	1182.7	1208.8	1223.3
12.5°	999.6	1004.2	1016.5	1040.7	1076.3	1119.7	1167.6	1179.1	1219.2	1257.1	1277.7
15°	1012.9	1013.7	1027.0	1049.9	1085.0	1136.6	1201.0	1214.6	1265.3	1314.7	1340.2
17.5°	1064.0	1059.9	1066.7	1076.8	1104.6	1158.9	1236.2	1256.7	1324.3	1382.2	1406.5
20°	1191.8	1191.8	1176.4	1148.9	1149.3	1193.7	1283.7	1307.0	1389.6	1456.7	1478.6
22.5°	1410.5	1406.5	1375.4	1308.3	1246.6	1253.5	1341.6	1371.8	1468.1	1539.8	1547.1
25°	1673.6	1668.6	1620.6	1526.1	1419.2	1350.3	1420.1	1454.9	1561.7	1625.2	1610.1
27.5°	1952.2	1948.1	1900.5	1783.2	1631.1	1504.6	1513.8	1546.6	1657.1	1719.7	1671.8
30°	2222.0	2223.4	2176.4	2055.8	1883.7	1701.5	1632.5	1651.7	1749.8	1813.4	1744.9
32.5°	2478.7	2480.5	2439.8	2305.1	2144.4	1930.3	1796.9	1791.8	1857.6	1920.2	1841.7
35°	2707.4	2712.0	2684.2	2579.5	2409.3	2185.0	2010.2	1998.3	2010.7	2081.4	1990.1
37.5°	2928.0	2930.7	2909.8	2821.6	2679.1	2465.0	2279.6	2262.6	2236.2	2290.5	2186.0
40°	3169.6	3162.7	3138.5	3058.6	2936.2	2774.1	2569.1	2539.9	2493.8	2542.1	2443.5
42.5°	3394.3	3386.5	3390.6	3300.2	3197.0	3091.9	2906.5	2856.3	2829.4	2885.1	2759.5
45°	3675.0	3670.9	3684.6	3606.1	3522.6	3446.3	3293.3	3238.5	3226.7	3292.0	3141.7
47.5°	3952.3	3962.3	4004.8	3971.5	3937.7	3870.5	3702.9	3678.3	3685.6	3764.6	3544.9
50°	4183.3	4195.2	4311.7	4350.0	4398.9	4359.5	4191.5	4176.5	4205.3	4276.5	3978.7
52.5°	4350.4	4374.6	4519.4	4696.1	4874.2	4900.7	4733.1	4719.4	4758.3	4769.2	4313.9
55°	4466.4	4487.9	4651.9	4975.1	5337.7	5451.9	5347.7	5294.8	5287.5	5179.2	4666.5
57.5°	4487.0	4484.7	4720.3	5155.6	5701.2	5995.7	5930.0	5878.0	5728.2	5558.3	5070.6
60°	4371.0	4384.2	4657.7	5218.1	5929.5	6407.2	6412.2	6344.6	6111.2	5926.8	5462.4
62.5°	4013.9	4067.8	4344.1	5054.1	5926.8	6572.9	6765.6	6714.0	6435.0	6228.6	5859.6
65°	3434.9	3454.1	3717.5	4492.5	5526.3	6503.5	7084.0	7064.8	6726.8	6521.8	6063.8
67.5°	2508.4	2466.8	2743.5	3537.6	4678.8	6098.9	7312.3	7336.5	6952.0	6582.0	5846.4
68°	2289.2	2301.5	2517.0	3301.5	4456.9	5956.0	7327.4	7364.3	6974.3	6542.8	5727.7
70°	1364.4	1388.2	1580.5	2273.2	3390.6	5147.3	7164.7	7249.2	6841.0	6137.8	4954.2
72.5°	348.4	376.7	558.5	1017.4	1936.6	3626.7	6048.3	6191.2	5939.5	4979.2	3344.4
75°	143.4	150.7	199.5	335.2	721.5	1633.8	3986.5	4292.5	4117.5	2981.0	1511.5
77.5°	99.1	104.1	128.3	185.8	312.3	553.9	1954.5	2175.4	1959.9	1017.4	329.7
80°	71.3	75.4	91.8	123.7	179.4	197.8	637.0	736.6	584.9	223.3	81.7
82.5°	42.5	45.6	68.5	88.1	109.2	94.6	158.5	179.9	169.4	110.9	36.5
85°	21.0	24.7	46.1	63.0	58.9	39.7	48.4	53.8	66.7	67.5	19.7
87.5°	1.4	2.7	26.9	37.9	16.4	9.1	14.2	17.3	23.8	33.3	8.2
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°	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1150.7	1151.2	1148.0	1146.6	1147.6	1142.1	1139.7	1140.7	1140.7	1142.1	1139.7
5°	1162.2	1162.2	1156.7	1149.3	1145.2	1134.7	1127.9	1126.1	1124.8	1123.8	1122.0
7.5°	1186.8	1184.1	1174.5	1158.5	1144.8	1122.0	1104.6	1095.5	1090.9	1089.1	1087.8
10°	1226.6	1221.5	1205.5	1175.9	1144.3	1103.7	1065.8	1038.9	1016.5	1007.4	1001.9
12.5°	1279.9	1272.7	1245.8	1196.4	1141.1	1066.2	984.1	905.1	831.6	801.4	786.3
15°	1341.6	1331.1	1288.6	1213.8	1122.4	981.8	803.3	664.8	563.0	524.6	508.3
17.5°	1404.2	1390.5	1326.1	1224.7	1066.2	806.9	563.5	425.6	357.5	339.3	332.9
20°	1467.2	1447.1	1358.5	1216.5	939.3	581.8	371.7	311.0	291.3	285.9	284.0
22.5°	1527.0	1496.0	1387.7	1184.6	743.8	390.4	294.1	274.9	268.5	265.3	264.4
25°	1579.1	1535.7	1413.3	1085.9	526.5	295.0	264.8	258.5	250.2	244.3	244.7
27.5°	1628.0	1575.4	1428.8	923.3	351.2	252.1	245.2	236.5	221.4	212.8	212.8
30°	1686.8	1628.4	1440.3	710.6	258.5	222.8	217.3	204.1	183.6	172.1	172.1
32.5°	1775.4	1708.7	1432.9	498.7	214.2	195.9	183.1	164.9	142.4	131.5	131.1
35°	1911.1	1833.0	1380.9	327.0	189.0	170.3	149.8	127.4	107.8	98.7	98.2
37.5°	2093.7	1999.2	1264.0	233.8	169.4	146.6	121.9	97.3	82.6	76.8	76.3
40°	2330.7	2192.4	1096.9	189.5	151.2	123.7	94.1	75.4	65.3	60.7	61.2
42.5°	2615.2	2399.2	896.4	163.5	133.3	101.8	73.5	59.3	53.0	49.7	48.9
45°	2931.2	2603.3	686.4	145.7	115.5	82.2	57.6	47.0	42.0	40.1	40.1
47.5°	3278.7	2802.0	502.3	130.1	96.3	63.4	46.1	38.4	34.3	32.9	32.4
50°	3594.3	2939.9	362.1	113.7	79.0	50.2	37.4	32.0	29.3	27.4	27.4
52.5°	3857.3	2983.3	266.7	95.9	63.9	40.1	31.0	27.4	24.7	23.3	23.3
55°	4088.8	2965.5	198.1	79.0	51.6	32.9	26.5	23.3	21.0	19.7	19.7
57.5°	4310.7	2907.9	147.9	64.4	41.5	26.5	22.4	19.7	17.3	16.4	16.4
60°	4492.0	2812.1	110.0	52.1	33.3	21.4	18.7	16.0	14.2	12.8	12.8
62.5°	4639.0	2706.1	80.9	42.9	26.5	16.9	14.6	13.2	10.5	9.1	9.1
65°	4639.9	2530.3	60.7	35.6	20.6	13.2	11.0	10.5	6.9	5.5	5.0
67.5°	4304.3	2181.4	46.6	30.6	16.0	10.1	8.2	8.7	3.6	2.3	1.9
68°	4182.4	2092.8	43.9	30.2	15.1	9.6	7.7	8.7	3.2	1.9	1.4
70°	3526.2	1665.0	35.1	29.3	13.2	7.3	6.4	8.7	2.7	1.4	0.9
72.5°	2255.4	966.3	26.0	23.3	10.1	5.5	4.1	7.7	2.7	0.9	0.5
75°	959.9	299.6	17.8	16.4	6.0	4.1	2.7	5.0	1.9	0.5	0.0
77.5°	202.3	67.5	10.5	10.1	4.1	2.7	1.9	1.4	0.5	0.0	0.0
80°	52.1	19.7	5.5	5.0	2.3	1.4	0.9	0.0	0.0	0.0	0.0
82.5°	16.4	7.7	3.2	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	4.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)