

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: P322987

Luminaire Tested: **GLEON-SA3A-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7581 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - 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

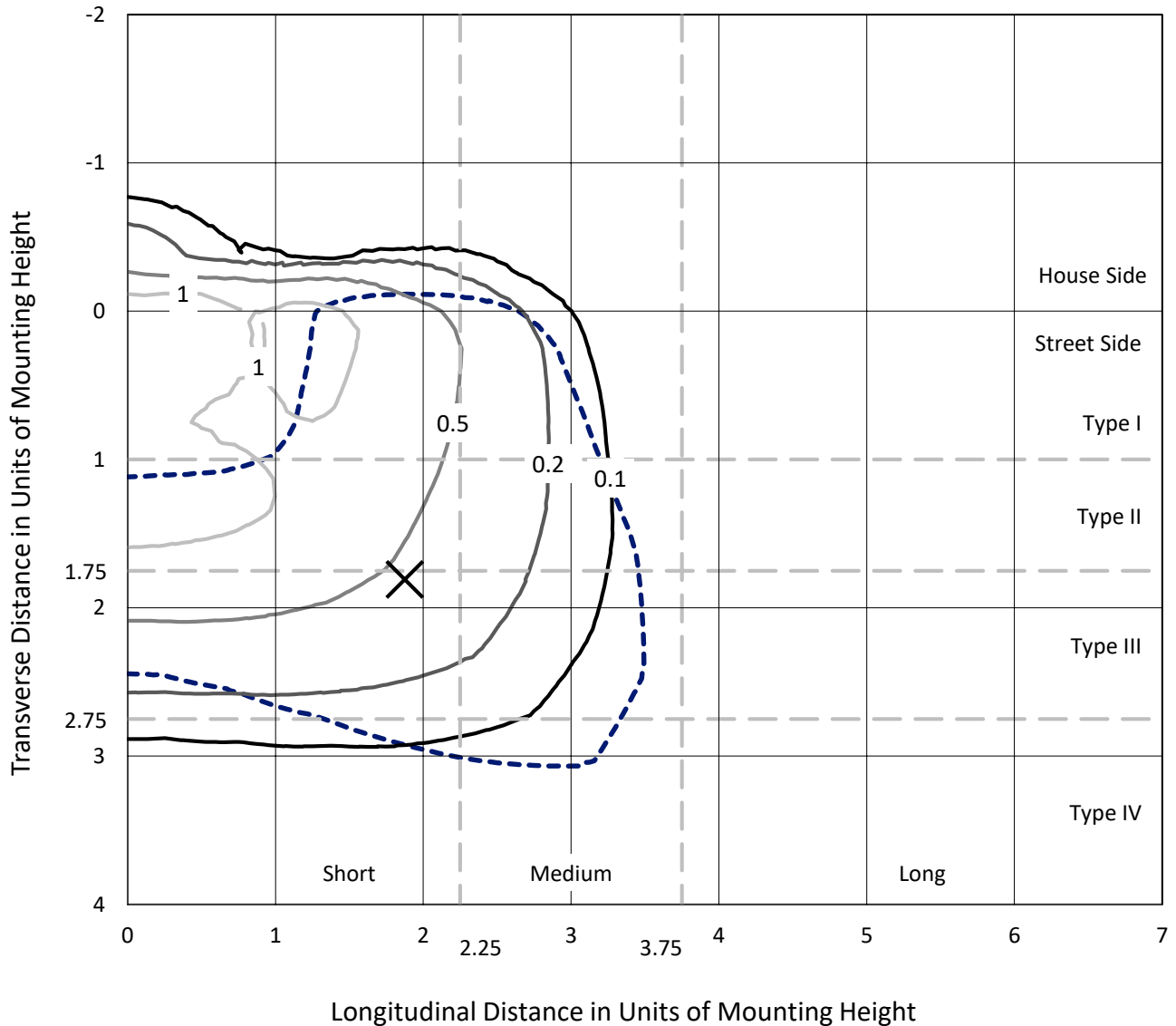




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Iso-Footcandle Lines of Horizontal Illumination

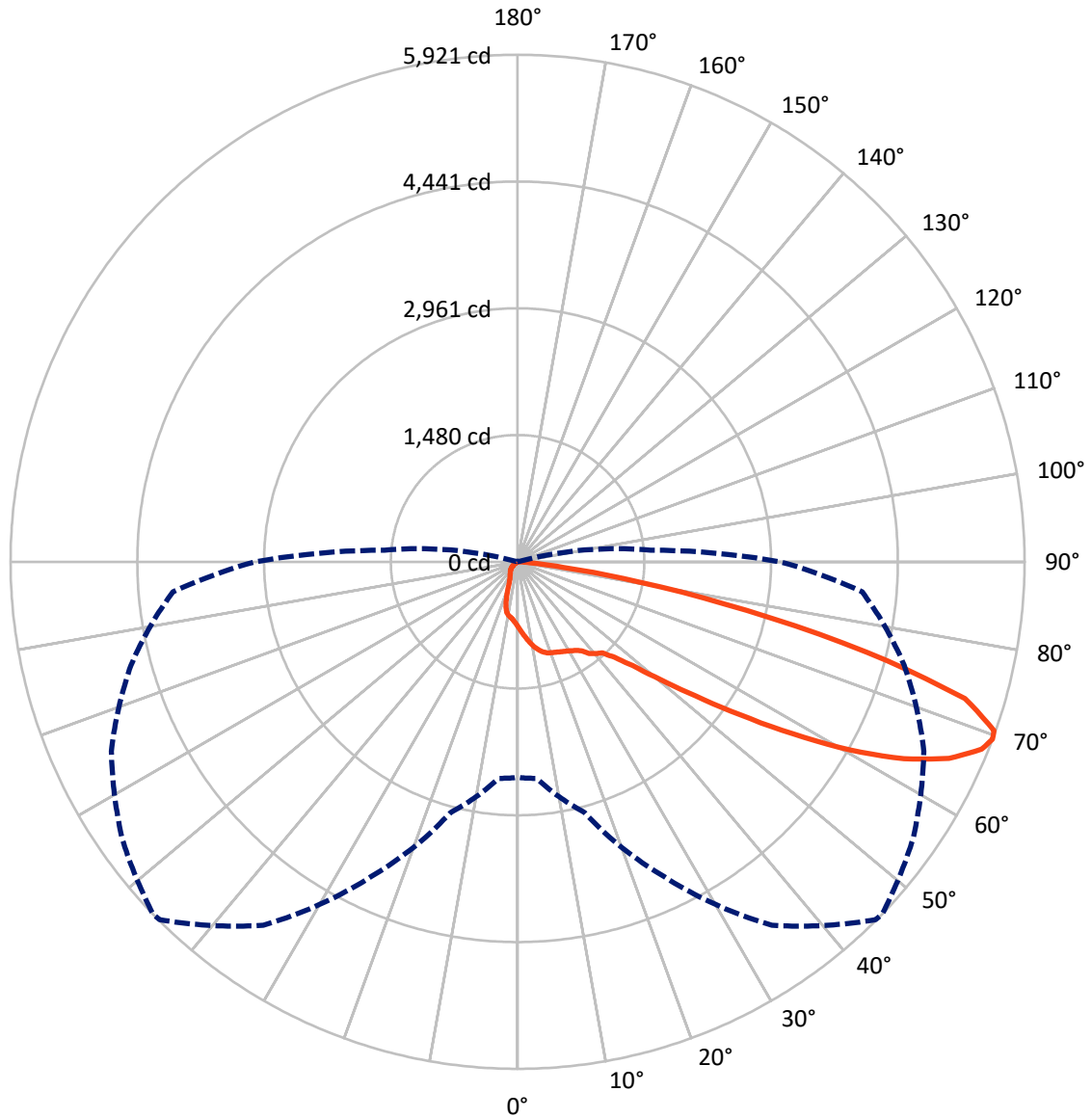
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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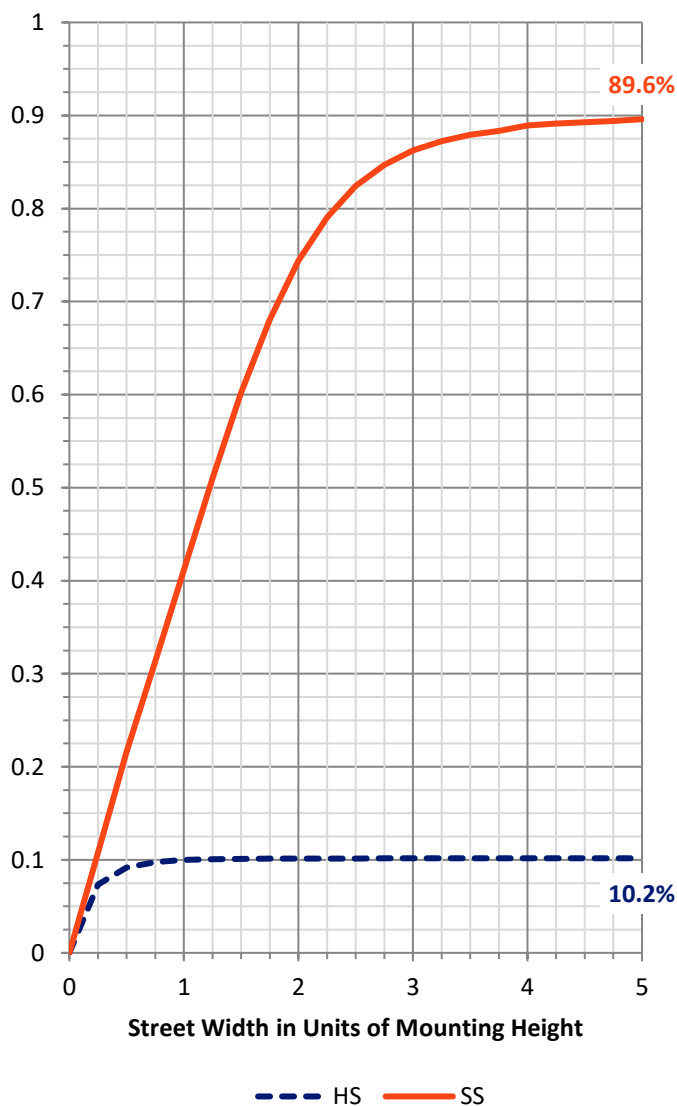
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	778.0	0.0	778.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	6803.0	0.0	6803.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	7581.0	0.0	7581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.0
10°-20°	229.4	3.0
20°-30°	360.7	4.8
30°-40°	517.3	6.8
40°-50°	894.0	11.8
50°-60°	1766.3	23.3
60°-70°	2468.5	32.6
70°-80°	1192.6	15.7
80°-90°	76.7	1.0
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°	7581.0	100.0
0°-180°	7581.0	100.0

Coefficient of Utilization



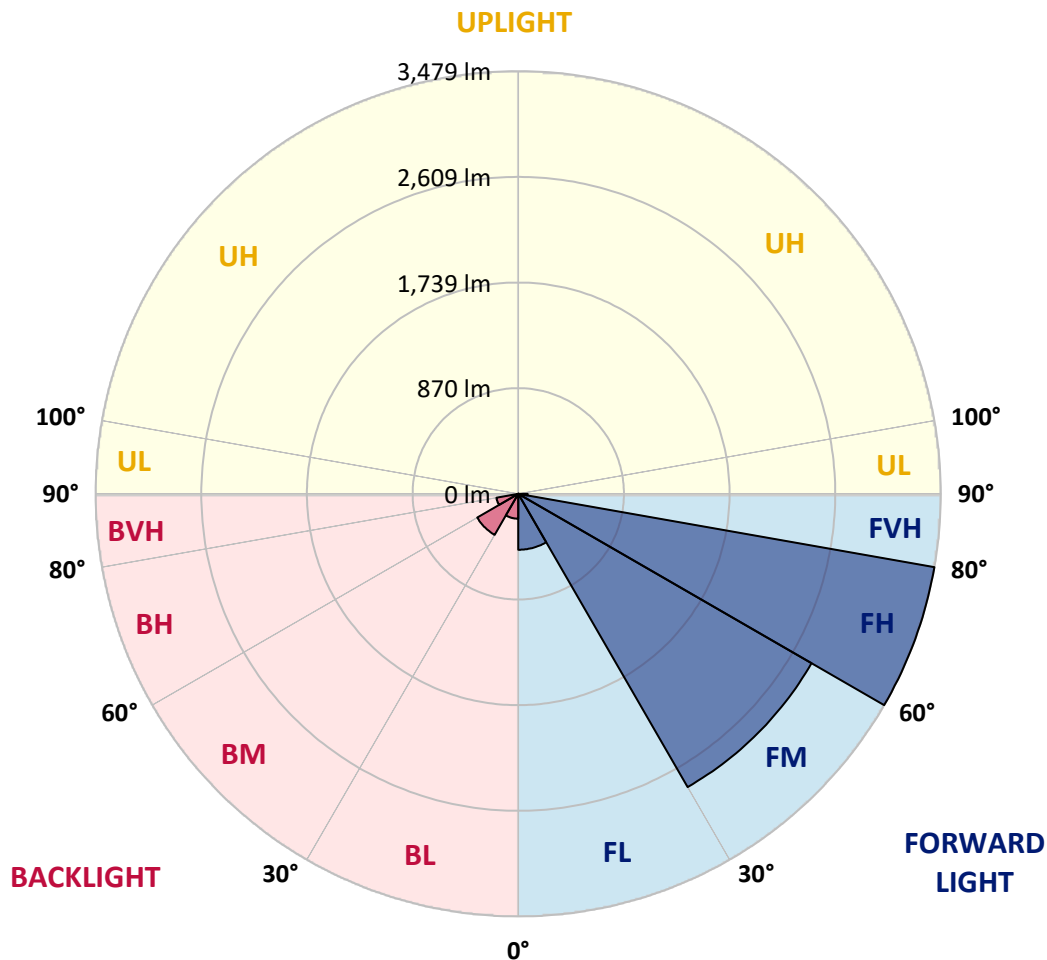
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.6	6.1			
FM (30°-60°)	2787.7	36.8			
FH (60°-80°)	3478.6	45.9			G2/5000
FVH (80°-90°)	76.0	1.0			G1/100
BL (0°-30°)	205.1	2.7	B1/500		
BM (30°-60°)	389.9	5.1	B1/1000		
BH (60°-80°)	182.4	2.4	B1/500		G1/500
BVH (80°-90°)	0.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6
2.5°	843.8	842.8	837.8	835.7	823.6	816.5	813.6	804.7	791.9	779.1	764.9
5°	939.8	939.4	930.2	921.3	898.6	877.2	873.3	852.7	823.9	796.9	769.9
7.5°	1037.9	1033.3	1024.0	1007.0	973.9	939.8	936.6	907.5	866.6	827.5	788.7
10°	1121.1	1118.2	1106.1	1080.2	1041.5	1002.7	998.8	962.9	916.7	868.7	819.3
12.5°	1185.8	1183.6	1167.6	1135.3	1094.1	1053.9	1048.6	1016.6	967.2	913.5	855.2
15°	1225.2	1224.2	1204.6	1170.1	1129.6	1094.8	1090.2	1062.1	1016.2	960.1	894.3
17.5°	1234.5	1234.8	1214.6	1179.7	1146.3	1121.4	1117.9	1096.6	1058.2	1002.4	933.4
20°	1213.8	1218.1	1200.0	1169.8	1149.2	1136.0	1133.2	1120.4	1088.0	1035.4	964.7
22.5°	1184.7	1186.8	1174.4	1154.1	1145.6	1148.1	1146.7	1139.6	1112.2	1063.8	995.6
25°	1166.9	1166.9	1159.5	1142.4	1148.1	1163.4	1163.7	1162.3	1140.6	1098.7	1033.3
27.5°	1166.2	1164.1	1155.6	1142.8	1158.4	1181.9	1183.3	1192.9	1179.4	1141.0	1080.2
30°	1194.7	1192.2	1174.0	1157.3	1177.2	1202.5	1206.0	1227.0	1220.2	1186.8	1132.5
32.5°	1261.1	1252.2	1212.1	1184.7	1199.6	1229.8	1234.5	1267.9	1278.5	1243.3	1182.9
35°	1352.1	1324.0	1266.1	1236.6	1238.0	1269.7	1273.9	1323.0	1354.6	1295.2	1222.0
37.5°	1477.6	1463.7	1369.5	1290.6	1297.0	1345.0	1357.4	1410.8	1401.9	1323.7	1266.5
40°	1752.7	1731.0	1630.8	1442.0	1353.5	1406.1	1410.1	1438.5	1439.2	1388.0	1358.9
42.5°	2127.3	2118.5	2012.9	1716.8	1464.8	1447.0	1454.1	1502.1	1555.8	1523.8	1522.4
45°	2542.1	2537.5	2425.6	2081.5	1689.8	1581.0	1589.9	1654.2	1757.0	1764.1	1809.2
47.5°	2875.9	2873.8	2809.4	2488.5	2034.2	1808.2	1811.0	1879.2	2059.8	2149.0	2221.2
50°	3180.2	3190.5	3139.7	2928.9	2503.4	2164.0	2157.2	2202.7	2492.7	2638.8	2728.4
52.5°	3603.2	3617.7	3475.2	3339.8	2995.7	2605.4	2600.1	2647.7	3013.1	3122.6	3138.6
55°	3976.7	3951.8	3839.2	3800.1	3596.0	3150.7	3149.3	3191.2	3516.4	3563.0	3592.5
57.5°	4141.7	4132.1	4186.4	4276.0	4224.8	3795.1	3791.9	3759.9	3966.8	3971.8	4062.4
60°	4245.8	4257.5	4424.2	4700.4	4828.0	4488.6	4468.0	4272.8	4396.9	4385.8	4482.9
62.5°	4167.6	4190.7	4490.7	4951.0	5279.4	5093.9	5064.7	4742.7	4764.4	4726.4	4816.6
65°	3752.4	3788.3	4279.9	4903.7	5503.4	5567.0	5537.5	5157.5	5056.2	4993.7	4943.5
67.5°	3046.9	3068.2	3581.5	4492.5	5402.4	5849.2	5843.2	5521.1	5276.6	4948.5	4559.7
69°	2518.0	2538.9	3033.0	4059.5	5180.3	5909.6	5921.4	5637.7	5234.7	4674.1	4040.0
70°	2132.7	2155.1	2615.4	3688.5	4922.6	5881.6	5902.5	5626.7	5114.5	4356.3	3584.0
72.5°	1118.6	1137.8	1610.2	2541.1	4013.0	5400.6	5464.3	5151.1	4335.4	3163.8	2119.2
75°	351.5	362.6	628.8	1328.3	2747.6	4199.2	4213.8	4040.7	3078.5	1740.3	882.6
77.5°	134.0	130.8	209.4	489.4	1389.1	2644.2	2733.4	2525.1	1615.5	615.3	203.7
80°	72.2	72.5	108.8	202.6	594.3	1358.9	1434.2	1223.8	574.0	191.9	46.9
82.5°	31.3	32.7	61.1	107.3	273.0	501.2	538.9	448.6	219.3	129.0	17.4
85°	6.8	7.5	29.5	58.3	111.3	140.8	147.5	145.4	139.7	100.2	6.8
87.5°	0.0	0.0	13.2	21.0	28.1	32.0	28.1	36.6	77.1	67.5	3.6
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°	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6
2.5°	760.3	753.9	742.9	730.8	722.3	713.4	706.3	703.1	699.5	697.0	700.2
5°	758.9	746.4	725.1	704.5	689.6	677.5	667.5	663.6	659.7	656.9	656.5
7.5°	771.3	753.9	721.2	691.0	667.9	651.5	638.0	632.3	627.7	625.6	623.8
10°	795.1	772.7	729.0	689.6	659.7	632.0	602.8	580.4	565.9	559.1	556.6
12.5°	826.1	798.0	743.9	697.0	653.7	600.3	538.5	485.2	450.7	439.3	432.6
15°	862.3	827.5	763.5	706.6	631.6	534.2	429.4	359.7	327.7	321.3	314.2
17.5°	897.1	858.8	787.0	708.4	583.3	426.9	314.6	267.3	254.9	259.1	260.2
20°	927.7	889.7	810.1	692.8	495.5	320.3	243.5	231.8	236.4	244.5	246.0
22.5°	958.6	919.5	831.4	651.5	383.2	243.1	219.3	222.2	226.8	234.9	236.4
25°	996.3	955.8	851.3	575.8	287.6	206.9	208.3	212.6	217.2	224.6	225.4
27.5°	1039.7	1001.6	864.4	477.4	213.3	190.2	194.8	201.2	205.8	212.9	214.3
30°	1097.3	1062.1	868.7	375.4	178.8	175.2	177.4	185.2	191.9	198.3	199.4
32.5°	1151.3	1121.8	854.5	283.3	165.6	161.4	161.4	166.0	173.8	179.9	181.3
35°	1201.1	1181.9	809.0	207.2	155.7	148.6	145.0	145.0	150.0	155.0	156.4
37.5°	1266.8	1266.1	735.4	165.3	146.1	137.9	130.4	124.8	123.0	124.1	124.8
40°	1379.5	1380.6	639.4	148.2	137.9	126.9	115.5	105.2	95.6	92.4	92.1
42.5°	1555.4	1539.4	538.9	140.0	130.8	115.5	98.5	84.6	69.7	65.0	64.7
45°	1834.8	1739.9	432.2	132.6	123.3	102.7	81.4	62.6	50.5	46.9	46.9
47.5°	2241.8	2003.3	334.8	124.4	113.4	88.2	61.5	45.1	37.0	35.2	35.5
50°	2662.6	2261.3	256.6	114.1	101.3	72.9	45.5	32.7	28.1	28.1	28.4
52.5°	3035.9	2450.4	200.1	103.1	86.4	57.2	34.5	25.6	23.5	23.1	23.5
55°	3385.3	2572.4	153.2	90.3	68.6	42.7	26.3	21.0	19.5	18.8	18.5
57.5°	3722.2	2632.8	114.8	72.9	49.8	30.9	21.0	17.8	16.4	15.3	14.9
60°	3946.5	2583.7	78.9	53.7	34.5	22.4	17.4	15.3	13.5	12.4	12.1
62.5°	4073.1	2449.7	50.8	38.7	24.5	16.7	13.9	12.8	10.3	9.2	9.2
65°	4021.9	2228.6	35.5	27.7	17.8	12.4	10.3	10.3	7.5	6.0	5.7
67.5°	3564.1	1882.8	27.0	20.6	12.8	9.2	7.8	8.9	4.6	2.8	2.8
69°	3066.4	1560.4	23.1	17.1	10.7	7.5	6.8	8.2	3.2	2.1	1.8
70°	2665.1	1346.1	21.0	14.9	8.9	6.4	6.0	7.8	3.2	1.8	1.4
72.5°	1594.5	750.7	16.0	10.7	5.7	5.0	5.0	8.9	3.2	1.8	1.4
75°	644.4	264.5	11.7	7.5	4.3	4.3	6.0	11.4	2.8	1.4	1.1
77.5°	146.1	57.9	6.8	4.6	2.8	4.3	7.1	8.9	1.8	0.7	0.0
80°	35.5	14.2	4.3	2.8	1.8	3.2	5.3	5.0	0.4	0.0	0.0
82.5°	11.7	5.0	1.8	1.4	0.4	1.1	2.5	1.4	0.0	0.0	0.0
85°	5.0	2.8	0.7	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.2	1.1	0.0	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)