

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: P322696

Luminaire Tested: **GLEON-SA2D-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2D-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8287 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

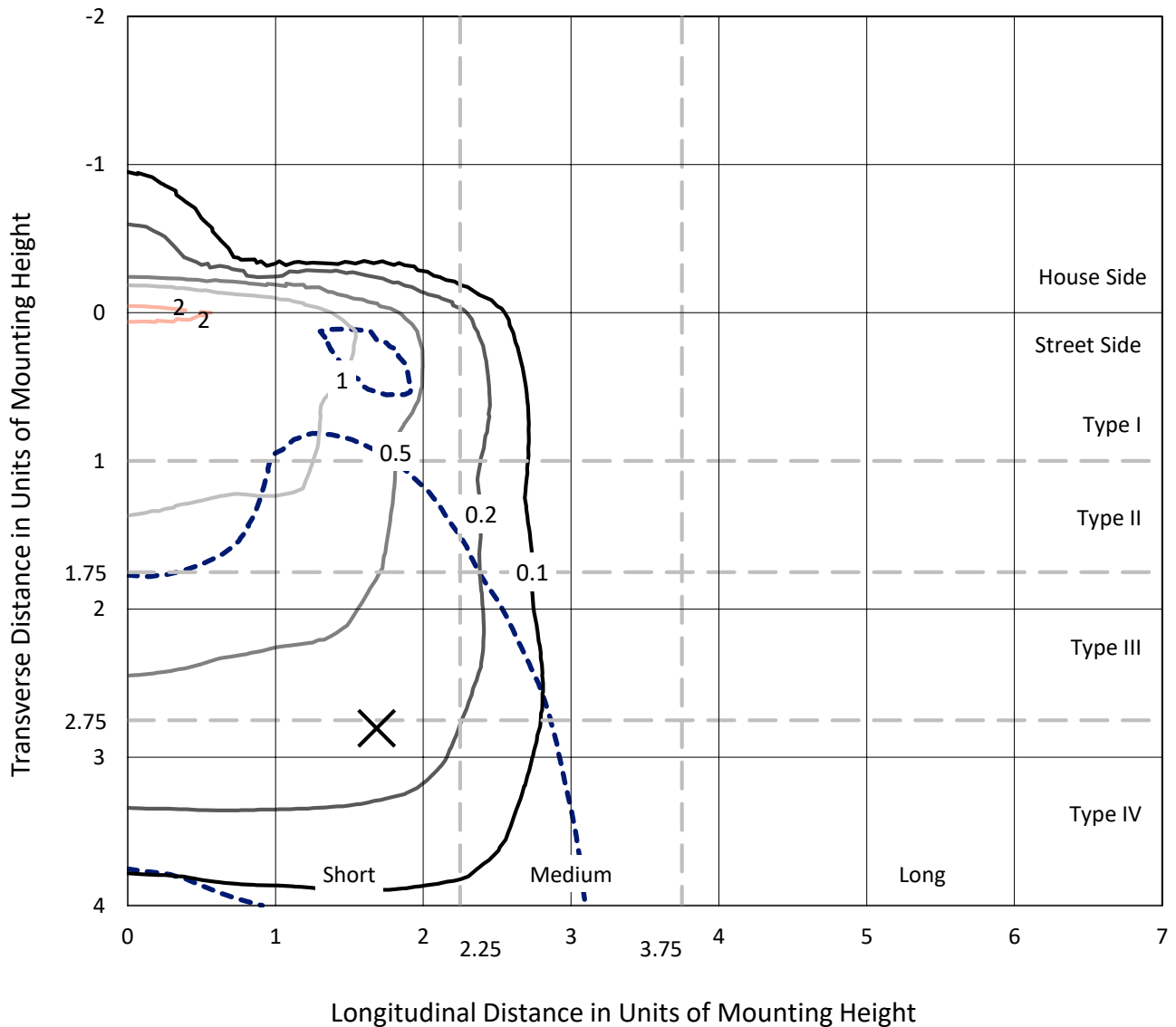
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

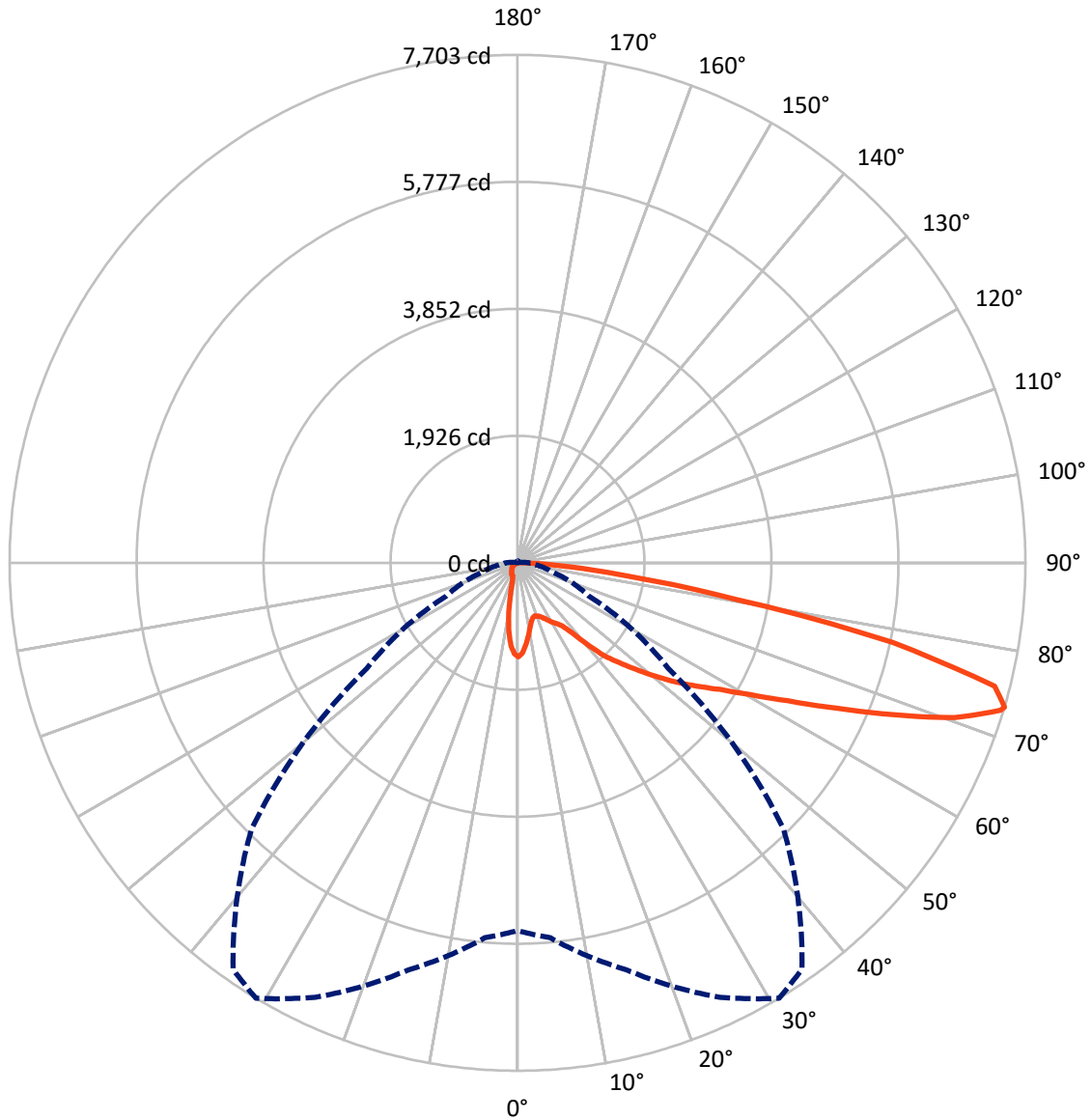
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	755.4	0.0	755.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	7531.6	0.0	7531.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	8287.0	0.0	8287.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	1.4
10°-20°	256.7	3.1
20°-30°	384.6	4.6
30°-40°	611.9	7.4
40°-50°	1092.7	13.2
50°-60°	1695.5	20.5
60°-70°	2253.9	27.2
70°-80°	1695.4	20.5
80°-90°	178.2	2.1
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°	8287.0	100.0
0°-180°	8287.0	100.0

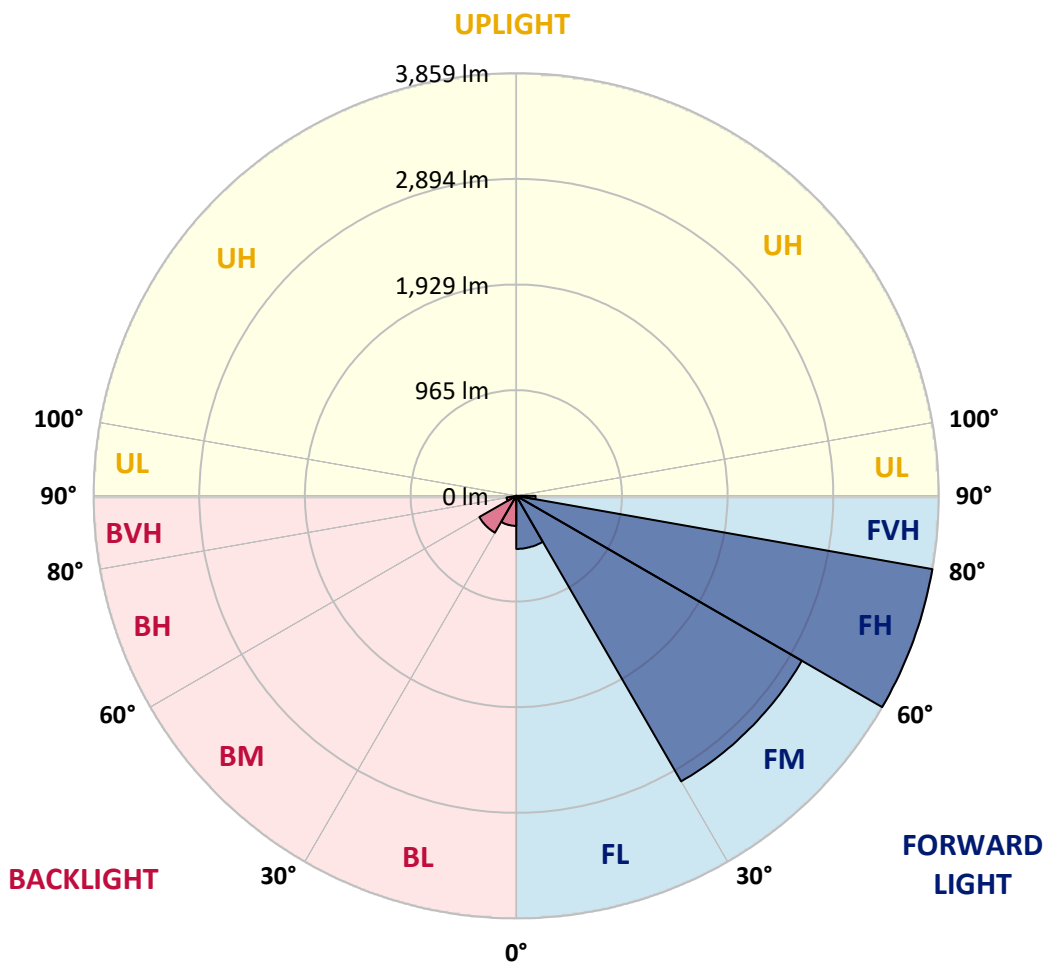


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.8	5.9			
FM (30°-60°)	3011.2	36.3			
FH (60°-80°)	3859.0	46.6			G2/5000
FVH (80°-90°)	176.7	2.1			G2/225
BL (0°-30°)	274.7	3.3	B1/500		
BM (30°-60°)	388.8	4.7	B1/1000		
BH (60°-80°)	90.4	1.1	B0/110		G0/110
BVH (80°-90°)	1.5	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°	31°	35°	45°	55°	65°	75°	85°
0°	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8
2.5°	1351.2	1356.9	1362.9	1364.2	1374.3	1374.7	1389.3	1400.2	1411.2	1421.7	1425.4
5°	1212.5	1221.8	1232.8	1243.7	1265.2	1273.7	1309.4	1345.9	1380.8	1414.0	1430.3
7.5°	1064.5	1075.0	1090.4	1117.6	1141.5	1158.2	1214.5	1279.4	1344.3	1405.5	1440.8
10°	929.4	939.2	955.4	984.2	1021.1	1043.8	1119.6	1209.7	1305.0	1397.8	1456.6
12.5°	843.5	848.7	857.7	888.5	921.7	947.3	1036.5	1148.0	1272.5	1397.4	1482.2
15°	827.7	829.3	822.0	835.8	861.7	886.5	976.9	1098.1	1247.8	1403.9	1515.4
17.5°	852.8	852.0	827.7	826.0	846.7	867.0	947.7	1063.7	1230.3	1418.9	1558.4
20°	890.9	888.1	845.9	838.2	860.1	879.2	945.7	1050.7	1223.8	1444.0	1610.7
22.5°	941.6	936.7	870.6	862.5	886.1	905.9	970.8	1063.3	1229.5	1477.7	1671.5
25°	1004.5	997.2	913.2	904.3	928.2	948.1	1015.8	1099.4	1246.6	1518.7	1748.6
27.5°	1075.4	1064.9	981.3	958.2	985.4	1006.1	1075.8	1154.5	1273.3	1562.0	1843.1
30°	1142.3	1128.6	1053.1	1015.0	1048.3	1071.4	1140.7	1220.2	1316.3	1629.0	1972.4
32.5°	1209.7	1194.2	1117.2	1071.8	1101.8	1126.9	1207.6	1310.6	1397.0	1731.1	2144.4
35°	1364.6	1348.3	1253.9	1178.8	1178.4	1192.6	1301.3	1434.3	1503.7	1873.5	2349.6
37.5°	1625.3	1616.0	1526.0	1383.6	1345.5	1329.7	1429.0	1581.9	1656.9	2069.3	2581.1
40°	1910.8	1902.7	1801.7	1672.8	1614.8	1575.8	1612.3	1787.5	1873.5	2308.6	2817.5
42.5°	2233.2	2194.7	2014.6	1976.1	1924.2	1894.6	1861.7	2041.0	2139.5	2568.9	3051.9
45°	2526.0	2461.1	2227.5	2169.1	2157.3	2164.6	2182.9	2381.6	2438.8	2878.4	3285.5
47.5°	2700.3	2649.2	2470.0	2414.0	2410.8	2459.1	2596.9	2766.4	2736.8	3148.0	3491.1
50°	2866.2	2820.0	2671.1	2684.9	2699.9	2765.6	3066.9	3162.2	3008.9	3392.5	3679.7
52.5°	3000.4	2929.9	2852.0	2929.4	3003.3	3109.1	3551.9	3517.4	3202.0	3587.2	3841.1
55°	3077.9	3045.8	3083.5	3161.4	3300.1	3472.0	4009.7	3813.1	3343.1	3764.8	3948.5
57.5°	3361.7	3298.9	3373.9	3441.2	3622.1	3862.5	4401.9	4033.3	3444.9	3874.7	3973.2
60°	3705.2	3654.5	3698.7	3810.6	4054.8	4337.4	4768.5	4212.9	3498.0	3945.3	3909.2
62.5°	4251.8	4184.9	4157.4	4282.7	4606.3	4914.9	5046.7	4337.4	3486.2	3914.0	3689.4
65°	4984.2	4914.9	4791.6	4905.1	5316.7	5534.5	5357.7	4363.8	3405.1	3661.4	3133.8
67.5°	5734.4	5684.1	5578.7	5770.1	6141.5	6211.7	5686.6	4299.7	3144.0	2968.8	2214.1
70°	6229.9	6208.5	6277.0	6700.3	7031.7	7011.4	5988.3	3955.4	2450.5	1825.6	1095.3
72.5°	5872.7	5975.7	6481.8	7249.4	7654.1	7488.7	5833.4	3037.3	1400.7	702.4	316.7
73°	5576.7	5708.5	6389.7	7270.1	7703.2	7521.9	5703.2	2787.9	1193.8	554.3	240.1
75°	3879.6	4041.4	5290.0	6770.9	7473.7	7166.7	4753.9	1706.4	553.1	245.7	96.9
77.5°	1883.6	2003.3	2912.8	4892.1	5812.3	5599.4	2959.5	635.8	249.8	153.7	44.6
80°	703.2	781.8	1264.4	2489.9	3358.9	3446.9	1301.7	240.5	166.3	123.7	22.7
82.5°	184.1	205.2	466.3	1110.3	1721.4	1801.7	410.4	121.2	121.7	101.8	13.8
85°	58.8	67.3	145.6	498.4	811.0	712.1	107.1	58.8	88.4	75.8	7.7
87.5°	7.3	9.3	46.2	117.2	178.8	99.4	16.6	17.4	37.7	42.2	4.5
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°	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8
2.5°	1429.0	1427.0	1427.4	1416.9	1410.0	1396.2	1382.0	1375.5	1368.6	1365.8	1368.6
5°	1436.3	1432.7	1422.1	1389.7	1355.2	1310.6	1268.9	1237.2	1197.5	1186.5	1197.9
7.5°	1447.7	1440.4	1409.6	1343.5	1266.8	1181.7	1086.0	1016.2	959.0	922.1	935.5
10°	1464.3	1450.5	1388.5	1276.2	1139.1	988.2	852.4	746.6	671.5	640.7	639.5
12.5°	1492.3	1466.3	1362.5	1188.6	983.0	781.8	603.8	489.1	428.2	388.9	388.1
15°	1523.1	1485.0	1329.7	1083.5	801.3	560.0	388.9	301.7	262.4	249.8	248.2
17.5°	1560.8	1506.5	1287.1	954.2	611.1	371.0	253.9	228.7	227.1	225.9	225.9
20°	1608.3	1532.0	1232.4	806.2	433.5	247.8	215.7	217.4	218.2	216.5	217.0
22.5°	1663.4	1558.0	1167.1	647.2	293.2	207.2	206.4	208.4	209.2	208.4	208.8
25°	1727.5	1588.0	1087.6	480.5	211.7	196.7	198.7	201.5	203.6	203.6	203.6
27.5°	1807.0	1624.5	991.9	335.4	182.9	185.7	191.4	196.7	199.5	200.3	200.3
30°	1910.4	1669.9	877.1	229.9	166.3	171.1	181.7	191.8	197.1	197.9	198.3
32.5°	2041.0	1721.0	744.1	169.9	152.1	155.7	167.1	184.1	194.2	195.9	195.9
35°	2190.6	1780.2	601.0	148.0	141.9	143.1	152.1	171.5	189.4	193.8	194.2
37.5°	2354.4	1838.6	457.0	138.3	133.4	133.4	139.9	156.5	177.6	191.4	193.0
40°	2507.3	1873.9	320.4	130.6	125.7	125.7	131.4	143.6	163.4	184.1	188.6
42.5°	2648.4	1886.1	223.0	123.3	118.4	119.6	124.5	134.2	149.2	169.9	174.0
45°	2793.6	1884.0	162.6	114.8	111.1	114.8	118.4	125.7	136.7	148.4	149.2
47.5°	2903.1	1867.0	129.0	106.7	104.2	109.1	112.3	117.2	123.3	122.5	122.5
50°	3005.7	1825.6	103.8	95.7	97.3	103.0	104.6	106.2	106.7	98.9	98.1
52.5°	3083.5	1761.2	83.1	83.9	90.4	96.1	94.5	92.1	88.0	78.7	77.0
55°	3109.5	1637.1	65.3	69.3	80.3	87.6	81.5	76.2	68.5	60.8	59.2
57.5°	3062.5	1476.9	53.1	53.9	67.7	73.8	66.9	60.8	52.3	45.8	44.6
60°	2962.7	1298.9	43.8	40.6	52.3	57.6	53.1	47.0	39.3	34.5	34.1
62.5°	2764.8	1109.1	36.1	31.6	39.7	44.2	41.4	36.9	30.4	27.2	26.8
65°	2348.8	887.3	29.2	25.5	30.8	34.5	32.0	28.8	23.9	21.5	21.1
67.5°	1639.5	599.8	23.9	21.1	24.3	27.2	25.1	23.5	19.1	18.7	19.1
70°	790.8	289.1	19.9	17.0	19.1	21.1	20.3	19.1	18.2	21.1	24.3
72.5°	226.7	96.9	15.8	14.2	15.4	16.6	17.4	17.0	19.9	25.5	29.6
73°	174.4	78.3	15.0	13.4	14.6	16.2	17.0	16.6	20.3	26.0	29.6
75°	74.6	37.7	11.4	10.9	12.2	14.2	15.0	15.0	20.3	26.4	28.4
77.5°	33.7	20.3	7.3	8.5	10.5	11.4	12.6	12.6	16.2	20.3	20.3
80°	19.1	10.9	5.7	6.5	7.7	7.7	7.7	6.9	7.3	8.1	8.9
82.5°	12.2	7.3	4.5	5.3	4.9	4.1	3.2	3.2	2.8	3.2	4.1
85°	6.9	4.1	4.1	3.2	2.0	1.6	2.0	1.6	0.4	0.0	0.4
87.5°	4.1	2.4	1.2	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)