

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: P321396

Luminaire Tested: **GLEON-SA2B-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6937 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

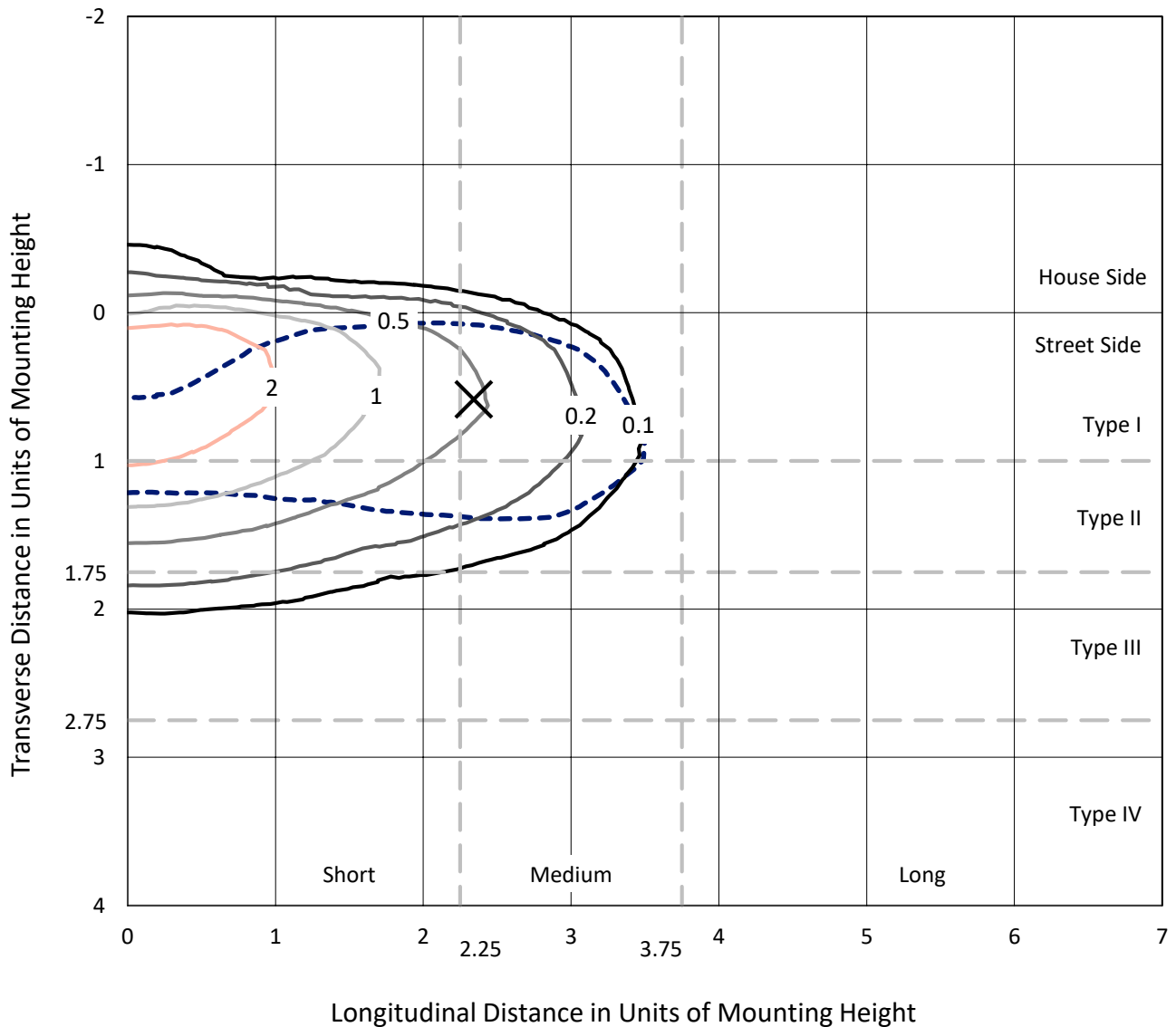
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

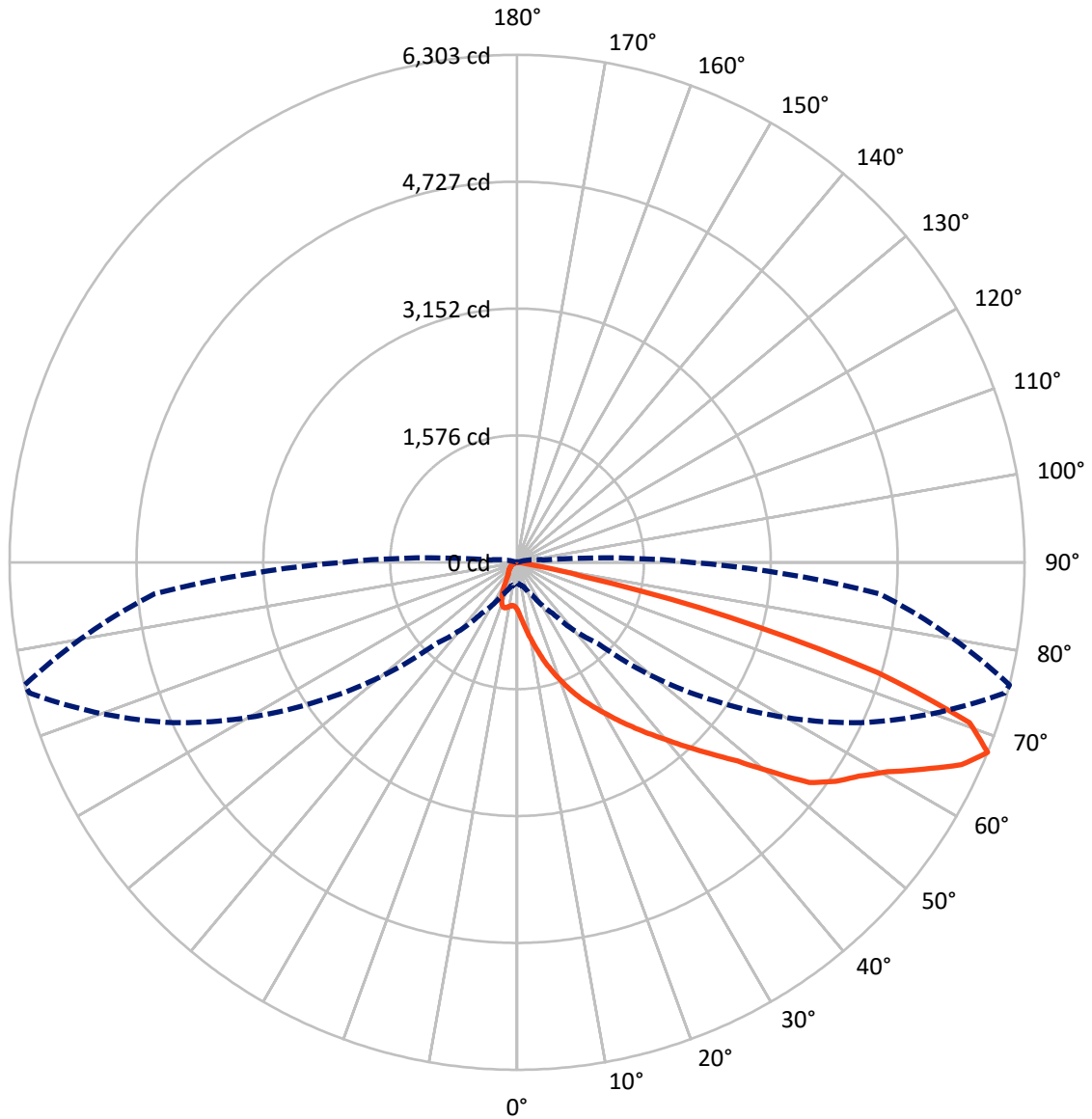
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	344.5	0.0	344.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6592.5	0.0	6592.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	6937.0	0.0	6937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	1.1
10°-20°	290.1	4.2
20°-30°	590.2	8.5
30°-40°	1024.4	14.8
40°-50°	1447.3	20.9
50°-60°	1641.4	23.7
60°-70°	1361.3	19.6
70°-80°	493.1	7.1
80°-90°	16.0	0.2
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°	6937.0	100.0
0°-180°	6937.0	100.0

Coefficient of Utilization

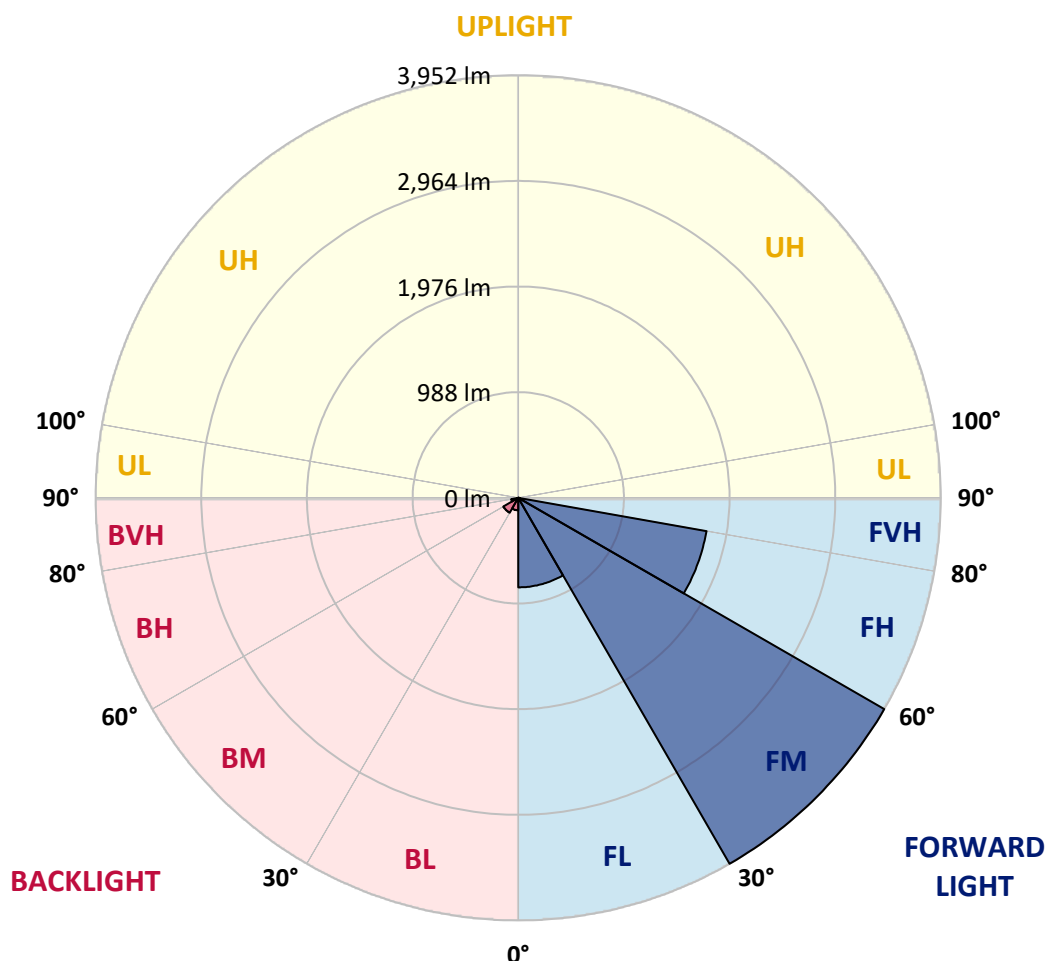


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.3	12.1			
FM (30°-60°)	3951.9	57.0			
FH (60°-80°)	1787.9	25.8			G1/1800
FVH (80°-90°)	15.5	0.2			G1/100
BL (0°-30°)	116.2	1.7	B1/500		
BM (30°-60°)	161.2	2.3	B0/220		
BH (60°-80°)	66.6	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	588.5	588.5	588.5	588.5	588.5	588.5	588.5	588.5	588.5	588.5	588.5
2.5°	878.4	858.7	863.2	850.5	827.4	780.0	739.5	701.2	656.5	655.0	618.2
5°	1184.5	1167.8	1165.7	1139.8	1097.9	1017.3	938.9	849.6	749.9	742.6	664.4
7.5°	1462.3	1449.0	1444.1	1413.4	1335.3	1256.9	1154.7	1023.4	867.5	854.1	726.8
10°	1675.7	1669.3	1670.5	1648.7	1581.8	1508.8	1374.8	1207.3	1000.9	980.3	801.5
12.5°	1837.4	1838.9	1849.9	1836.5	1799.1	1745.0	1601.8	1403.4	1148.6	1120.4	886.9
15°	1956.3	1963.9	1983.9	2000.6	1997.9	1951.1	1819.8	1602.5	1305.5	1274.2	982.1
17.5°	2033.2	2041.7	2070.9	2107.9	2142.0	2131.0	2030.1	1794.6	1464.2	1428.0	1083.9
20°	2100.6	2110.7	2142.0	2190.9	2254.4	2268.1	2201.9	1980.9	1622.5	1578.4	1189.1
22.5°	2246.8	2246.5	2265.7	2294.3	2354.7	2390.0	2348.1	2153.8	1779.1	1733.2	1296.4
25°	2511.3	2501.3	2494.6	2472.1	2485.4	2507.3	2483.9	2315.5	1936.5	1890.0	1405.2
27.5°	2825.6	2831.7	2777.5	2717.1	2670.3	2647.8	2609.5	2465.4	2087.9	2036.8	1511.6
30°	3157.2	3159.0	3095.2	3018.0	2914.9	2829.5	2763.3	2608.5	2243.5	2187.9	1614.9
32.5°	3456.3	3444.4	3381.2	3276.0	3145.9	3049.9	2912.2	2768.4	2408.2	2354.4	1729.8
35°	3693.4	3679.4	3602.5	3506.7	3371.8	3275.1	3109.5	2928.0	2581.5	2528.9	1845.0
37.5°	3866.6	3850.2	3771.2	3672.7	3556.3	3500.1	3338.3	3101.6	2770.6	2714.0	1966.3
40°	3926.8	3912.5	3863.0	3790.9	3697.3	3684.6	3581.2	3301.3	2976.3	2916.2	2103.7
42.5°	3890.9	3877.0	3859.3	3835.0	3796.1	3808.3	3810.4	3528.9	3204.9	3145.6	2255.4
45°	3748.7	3736.2	3754.5	3790.0	3838.4	3898.5	4019.5	3773.6	3460.2	3397.0	2430.7
47.5°	3539.3	3530.1	3580.6	3669.4	3810.7	3976.7	4210.7	4030.8	3746.9	3688.2	2649.6
50°	3241.4	3239.9	3340.8	3502.8	3720.1	4014.3	4408.3	4323.2	4145.0	4083.3	2953.8
52.5°	2777.5	2780.6	2979.1	3238.3	3561.1	3988.8	4535.3	4698.9	4608.3	4544.1	3217.4
55°	2335.9	2354.1	2494.9	2868.7	3317.4	3894.0	4579.1	4874.2	4863.9	4803.1	3363.9
57.5°	1903.4	1936.5	2072.1	2421.3	2961.4	3675.4	4555.1	4950.2	5054.2	5007.7	3557.2
60°	1434.7	1449.9	1606.1	1932.6	2504.6	3276.6	4380.9	4991.6	5314.4	5282.1	3837.7
62.5°	912.8	950.8	1089.4	1404.3	1950.2	2722.8	4087.3	4991.0	5639.9	5657.5	4199.8
65°	480.9	525.2	598.8	870.2	1340.1	2104.3	3645.6	4944.1	6039.3	6063.9	4482.7
67.5°	259.3	272.0	310.9	451.7	777.2	1425.6	2996.7	4713.1	6270.6	6303.1	4522.3
70°	189.7	196.7	211.2	249.9	391.2	828.0	2186.7	4189.4	5972.4	5960.3	4018.0
72.5°	145.6	156.5	167.5	183.0	224.9	442.0	1361.4	3280.6	4765.4	4685.2	3003.4
75°	114.9	116.7	132.2	146.2	168.7	251.7	604.6	1910.7	2908.6	2718.6	1557.5
77.5°	91.8	93.0	102.1	114.3	135.6	165.4	187.2	751.7	928.6	828.6	338.0
80°	54.4	57.4	76.0	88.1	112.5	104.3	68.4	163.2	145.0	131.3	56.8
82.5°	30.4	32.8	42.9	69.6	78.4	49.8	34.0	44.1	34.0	33.1	16.1
85°	0.0	1.5	27.7	43.2	31.9	10.9	14.3	14.6	10.0	9.4	6.4
87.5°	0.0	0.0	8.5	8.2	1.2	1.8	3.3	4.9	4.0	4.0	3.3
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°	588.5	588.5	588.5	588.5	588.5	588.5	588.5	588.5	588.5	588.5	588.5
2.5°	600.0	583.6	552.6	522.2	496.7	475.7	456.8	449.2	443.2	442.3	437.4
5°	626.8	593.6	534.4	485.7	453.2	430.1	410.3	398.2	388.8	385.1	381.8
7.5°	667.2	617.0	531.9	476.0	437.1	398.2	361.7	322.2	297.6	288.2	282.7
10°	716.4	648.0	541.0	473.3	405.2	323.1	262.6	212.5	192.1	185.4	183.6
12.5°	773.9	686.6	556.8	456.2	337.1	229.5	181.2	164.1	159.6	157.4	157.4
15°	839.8	728.9	568.1	407.0	249.2	173.6	156.8	148.9	144.1	141.3	141.6
17.5°	907.3	770.2	562.6	335.6	183.9	154.4	141.9	133.4	126.7	124.0	123.4
20°	975.4	808.5	532.2	249.9	155.6	140.1	126.1	116.7	110.0	107.3	106.7
22.5°	1045.9	841.0	478.7	183.3	139.8	124.3	110.6	101.2	94.8	92.4	91.2
25°	1114.6	867.5	404.0	148.3	124.9	109.4	96.4	87.5	81.8	79.3	79.0
27.5°	1178.7	884.2	317.3	131.0	111.9	96.1	84.2	76.3	71.4	69.6	69.3
30°	1236.5	885.7	234.7	118.2	100.3	84.5	73.6	66.6	62.3	60.5	59.9
32.5°	1294.9	873.0	170.8	106.7	89.7	74.5	63.8	58.4	55.3	53.8	53.8
35°	1349.9	843.5	133.1	96.7	79.3	64.7	56.2	52.3	50.5	48.9	48.9
37.5°	1403.7	801.2	113.1	87.8	69.6	56.5	49.5	47.1	45.6	44.1	44.1
40°	1458.4	748.0	102.7	79.6	61.7	50.2	44.1	41.9	40.4	39.2	38.9
42.5°	1525.6	686.6	96.1	72.0	54.7	44.4	38.9	36.5	35.3	34.0	33.4
45°	1603.4	633.7	90.6	64.4	48.9	39.5	33.7	31.3	29.5	28.0	27.7
47.5°	1715.5	595.4	83.3	56.2	43.5	34.3	29.2	26.4	23.7	22.2	21.9
50°	1858.7	563.8	73.9	48.9	38.0	29.2	24.3	21.0	18.5	17.0	17.0
52.5°	1929.8	522.5	65.4	42.6	31.9	24.6	19.8	15.8	14.6	13.1	13.1
55°	1958.4	490.9	56.8	36.2	26.4	20.4	15.5	12.2	11.2	10.3	10.0
57.5°	2038.6	481.8	49.5	30.7	21.9	16.1	11.9	9.1	8.5	7.3	7.3
60°	2167.8	486.3	42.9	26.1	17.6	12.5	8.8	7.0	6.4	5.2	5.2
62.5°	2307.3	480.6	36.2	22.5	13.7	9.1	6.1	5.2	5.2	3.0	2.7
65°	2334.1	428.0	31.0	18.5	10.6	6.7	4.0	3.3	4.6	0.6	0.0
67.5°	2166.3	331.9	26.7	14.3	7.9	5.2	3.0	1.5	4.0	0.0	0.0
70°	1732.2	210.9	21.6	10.3	6.1	4.3	2.4	0.6	3.0	0.0	0.0
72.5°	1224.9	122.5	17.0	7.3	5.2	3.3	1.8	0.0	1.8	0.0	0.0
75°	619.5	65.4	10.6	5.5	4.0	2.4	1.2	0.0	0.3	0.0	0.0
77.5°	134.0	30.4	6.7	4.0	2.7	1.5	0.6	0.0	0.0	0.0	0.0
80°	29.2	13.4	4.3	2.4	1.5	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	10.6	7.0	2.1	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.8	3.6	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.2	0.3	0.3	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)