

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: P323965

Luminaire Tested: **GLEON-SA1C-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4419 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

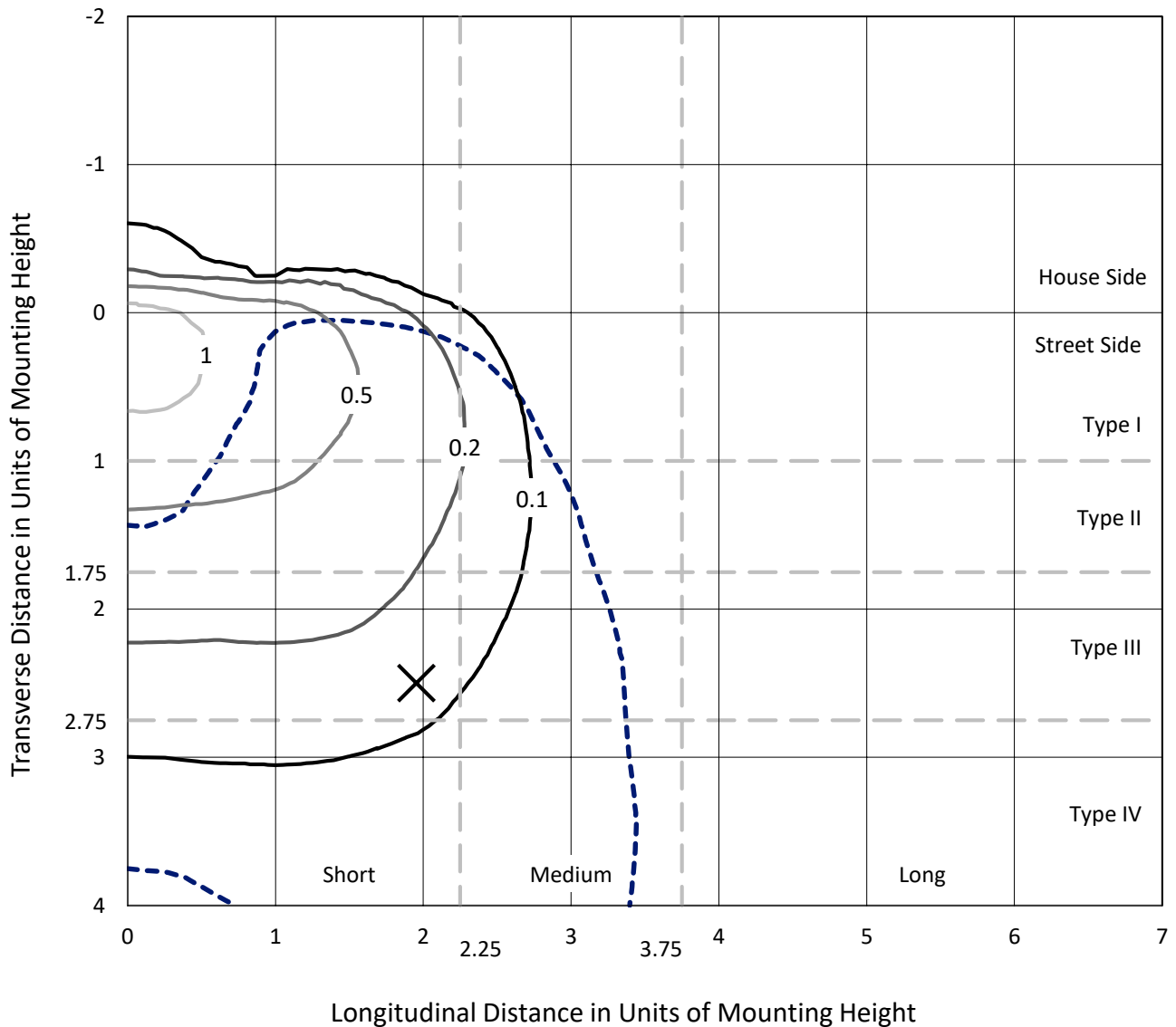
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

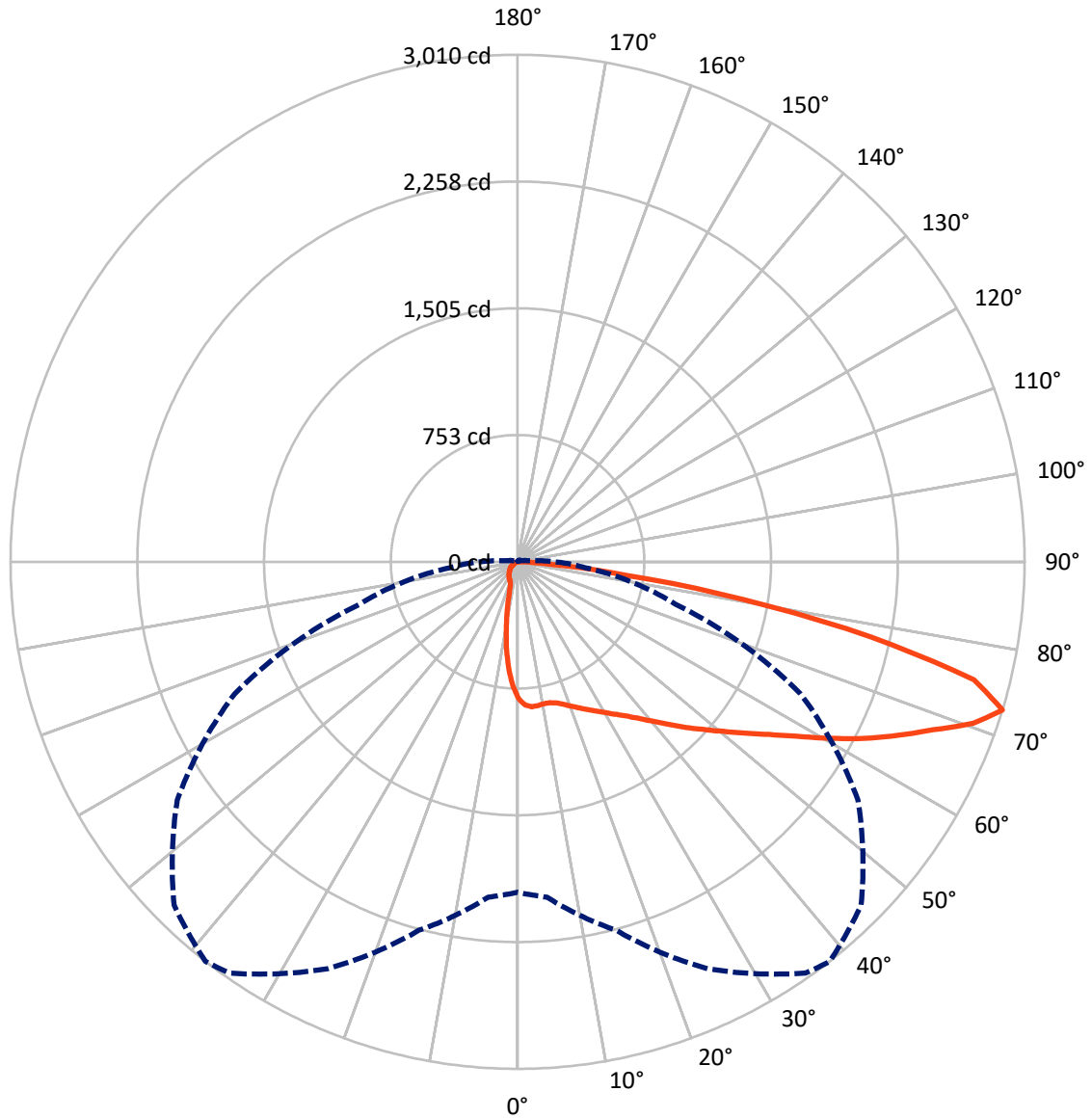
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	371.9	0.0	371.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4047.1	0.0	4047.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	4419.0	0.0	4419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	1.6
10°-20°	169.3	3.8
20°-30°	269.3	6.1
30°-40°	404.9	9.2
40°-50°	617.7	14.0
50°-60°	873.0	19.8
60°-70°	1095.1	24.8
70°-80°	818.8	18.5
80°-90°	101.5	2.3
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°	4419.0	100.0
0°-180°	4419.0	100.0

Coefficient of Utilization



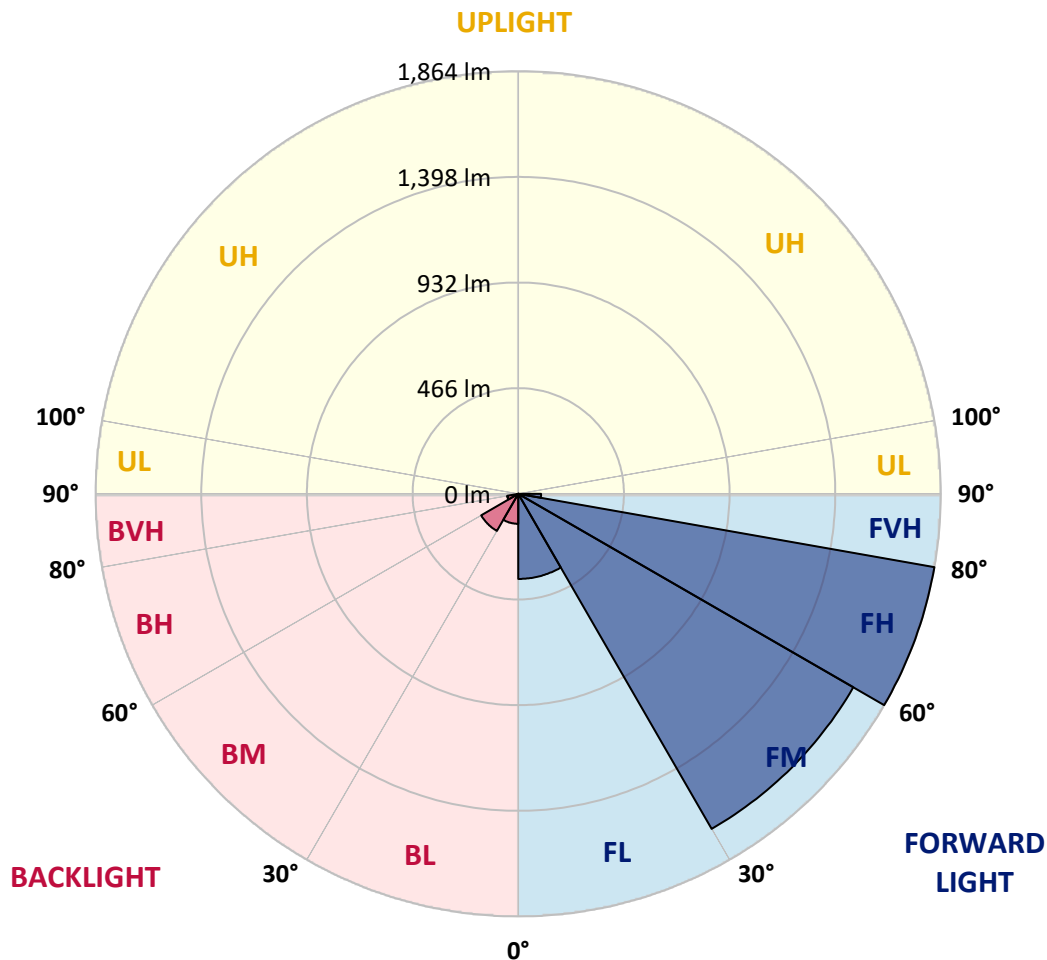
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.5	8.5			
FM (30°-60°)	1706.8	38.6			
FH (60°-80°)	1864.2	42.2			G2/5000
FVH (80°-90°)	100.6	2.3			G2/225
BL (0°-30°)	132.4	3.0	B1/500		
BM (30°-60°)	188.8	4.3	B0/220		
BH (60°-80°)	49.7	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	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°	38°	45°	55°	65°	75°	85°
0°	812.6	812.6	812.6	812.6	812.6	812.6	812.6	812.6	812.6	812.6	812.6
2.5°	862.6	862.7	860.7	857.4	853.2	851.0	847.3	841.5	835.2	824.0	811.9
5°	880.2	880.2	877.6	873.2	866.4	864.4	857.4	848.1	835.2	817.0	796.7
7.5°	878.3	878.7	875.2	870.6	863.8	862.0	853.6	843.1	827.1	805.1	779.1
10°	868.8	869.7	867.0	864.8	858.5	856.5	848.6	838.1	822.2	798.7	768.8
12.5°	859.1	860.0	860.9	862.9	859.1	858.3	852.1	843.3	828.1	803.6	769.9
15°	852.8	854.7	861.3	869.2	870.1	869.3	865.3	857.1	841.6	816.3	777.8
17.5°	852.8	855.8	869.5	884.6	889.9	890.5	887.0	875.4	857.1	829.9	785.1
20°	860.0	864.0	885.5	906.8	915.6	915.6	908.8	892.7	871.2	842.2	790.1
22.5°	878.3	883.7	910.6	935.2	944.6	942.6	933.4	909.9	885.9	856.1	796.3
25°	914.5	918.5	946.6	971.4	977.1	972.5	960.9	930.8	904.6	875.0	807.7
27.5°	961.1	961.7	990.7	1011.6	1008.1	1005.0	990.5	957.1	931.6	902.0	827.3
30°	1012.3	1012.3	1037.8	1053.8	1043.1	1040.6	1026.1	988.8	966.1	938.7	855.2
32.5°	1061.9	1064.1	1084.8	1094.9	1083.0	1080.4	1066.3	1029.0	1011.9	994.7	898.7
35°	1109.8	1111.4	1131.1	1136.6	1125.2	1125.9	1115.8	1084.3	1077.8	1075.6	964.2
37.5°	1156.2	1156.6	1176.6	1180.1	1174.4	1180.6	1181.5	1153.6	1165.6	1183.4	1056.5
40°	1198.6	1199.0	1218.8	1227.8	1237.5	1245.6	1252.7	1237.9	1277.3	1318.6	1166.5
42.5°	1232.5	1236.4	1261.5	1278.6	1304.3	1319.7	1339.2	1338.4	1410.4	1472.4	1299.3
45°	1262.5	1269.1	1304.1	1334.0	1378.1	1402.7	1433.1	1457.0	1560.1	1643.6	1433.9
47.5°	1301.9	1308.2	1348.2	1397.2	1455.9	1488.2	1538.7	1590.2	1724.7	1811.7	1565.3
50°	1357.5	1354.8	1394.2	1464.5	1539.9	1582.3	1654.3	1731.5	1888.1	1958.2	1642.5
52.5°	1416.8	1415.7	1444.9	1537.7	1639.0	1688.6	1783.7	1877.6	2044.3	2059.1	1678.0
55°	1490.2	1482.3	1506.9	1621.2	1756.7	1809.9	1921.9	2022.2	2168.7	2116.0	1695.8
57.5°	1567.1	1554.1	1577.6	1714.3	1889.4	1952.3	2074.9	2163.2	2251.5	2154.9	1695.6
60°	1646.6	1631.2	1659.0	1830.6	2054.2	2127.0	2240.8	2258.4	2328.7	2174.6	1683.1
62.5°	1713.0	1703.8	1745.3	1955.1	2238.2	2309.8	2366.2	2345.1	2393.9	2189.8	1653.9
65°	1783.3	1783.8	1850.8	2100.2	2433.9	2482.1	2486.9	2457.4	2448.4	2186.7	1555.2
67.5°	1878.4	1887.2	1998.9	2297.3	2624.2	2661.4	2661.1	2579.0	2488.2	2062.6	1336.2
70°	1978.9	1999.7	2169.6	2522.9	2831.9	2869.7	2850.3	2656.5	2342.9	1667.9	945.7
72.5°	1962.0	1998.0	2264.5	2665.1	2981.1	3010.0	2883.5	2466.2	1851.7	969.4	402.6
75°	1513.7	1555.4	2076.4	2524.2	2824.6	2798.7	2477.6	1919.1	1011.9	270.5	90.7
77.5°	799.6	821.8	1371.7	1923.0	2202.5	2148.3	1745.3	1064.6	308.5	67.0	40.7
80°	418.8	423.9	597.7	1091.0	1359.4	1359.7	1034.3	467.6	127.2	34.3	27.3
82.5°	224.3	228.7	315.8	504.1	712.3	645.6	396.0	257.3	74.0	19.5	26.2
85°	54.0	54.9	179.1	230.3	280.1	200.0	117.6	216.0	20.0	11.4	21.3
87.5°	20.7	21.1	66.4	99.7	71.4	46.2	55.1	80.6	2.6	4.4	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°	812.6	812.6	812.6	812.6	812.6	812.6	812.6	812.6	812.6	812.6	812.6
2.5°	804.6	799.8	788.0	773.2	760.0	750.4	736.1	726.8	720.5	720.3	717.9
5°	784.2	774.5	749.1	719.0	691.7	667.1	638.1	615.2	598.1	595.3	589.5
7.5°	762.4	746.4	707.5	660.5	614.6	568.0	513.9	480.3	451.5	437.7	436.2
10°	749.0	726.6	671.3	603.4	531.5	455.7	384.8	335.8	300.4	290.3	282.8
12.5°	746.2	716.7	643.4	549.8	447.1	346.9	268.5	216.4	188.1	179.1	176.7
15°	749.0	712.1	619.9	496.8	361.5	246.1	180.2	149.9	139.3	136.7	136.5
17.5°	750.6	706.6	593.3	437.9	278.6	175.8	138.0	129.2	127.5	127.4	127.7
20°	750.4	698.1	561.6	372.2	207.2	138.2	124.8	123.0	122.6	122.8	122.6
22.5°	749.1	688.2	526.7	304.5	156.5	123.5	119.1	118.0	117.8	117.8	117.8
25°	751.5	680.3	488.4	239.7	129.0	116.7	114.0	113.1	112.9	112.9	112.5
27.5°	760.2	675.9	446.3	184.4	116.5	110.7	108.5	108.3	107.7	107.5	107.9
30°	774.1	675.9	400.3	143.5	109.0	104.4	102.8	102.4	102.2	102.0	102.2
32.5°	798.7	681.1	350.0	119.3	101.9	97.5	96.3	96.9	96.3	96.3	96.3
35°	843.1	696.5	297.3	104.1	94.3	90.7	89.6	90.3	89.9	89.9	89.7
37.5°	907.9	725.1	244.3	94.9	87.7	83.9	82.4	83.5	83.1	83.1	83.0
40°	986.8	766.8	193.8	87.9	81.3	77.3	76.0	76.5	75.6	75.6	76.0
42.5°	1084.3	819.6	149.8	81.1	74.9	71.0	70.3	69.7	68.1	67.2	67.4
45°	1192.5	874.7	116.7	74.5	68.8	65.7	64.6	63.1	60.4	58.5	58.7
47.5°	1289.2	917.1	94.9	68.1	63.3	60.9	59.3	56.5	52.5	50.3	50.5
50°	1340.1	923.5	80.8	61.7	58.2	55.8	53.4	49.2	44.4	42.0	41.8
52.5°	1353.1	893.4	70.3	55.8	53.0	50.3	47.2	41.5	36.2	33.6	33.2
55°	1357.9	847.5	60.9	50.3	47.5	44.4	40.4	34.0	29.0	26.4	26.2
57.5°	1342.1	779.1	53.6	45.3	42.0	38.2	33.2	27.2	22.4	20.4	20.4
60°	1307.1	686.4	47.9	40.0	36.3	31.9	26.8	21.1	16.7	15.0	15.0
62.5°	1237.1	566.4	42.6	34.5	31.0	26.4	21.7	16.0	11.7	10.8	11.0
65°	1105.2	429.6	37.3	29.5	26.4	21.8	16.9	11.4	7.9	7.9	8.3
67.5°	901.3	298.4	31.7	25.1	22.8	17.8	12.8	7.9	5.5	6.2	7.0
70°	596.6	167.4	27.2	20.7	19.5	14.1	9.5	5.3	4.4	5.9	7.2
72.5°	225.2	65.2	22.8	16.7	16.9	10.8	6.8	4.0	4.0	6.4	8.4
75°	62.8	31.9	16.3	12.3	13.2	7.9	5.0	3.5	3.9	7.3	9.9
77.5°	36.9	23.5	10.6	7.2	9.0	5.5	3.3	2.8	3.3	6.2	9.5
80°	29.7	12.5	6.2	3.7	5.0	3.1	2.2	1.7	0.9	2.4	5.0
82.5°	29.7	7.5	2.9	2.6	2.6	1.7	1.1	0.7	0.2	0.0	1.3
85°	20.0	3.1	1.8	1.7	1.3	0.6	0.4	0.2	0.0	0.0	0.0
87.5°	3.3	1.3	0.7	0.4	0.2	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)