

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: P192159

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-T2-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4941 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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: 25 FT

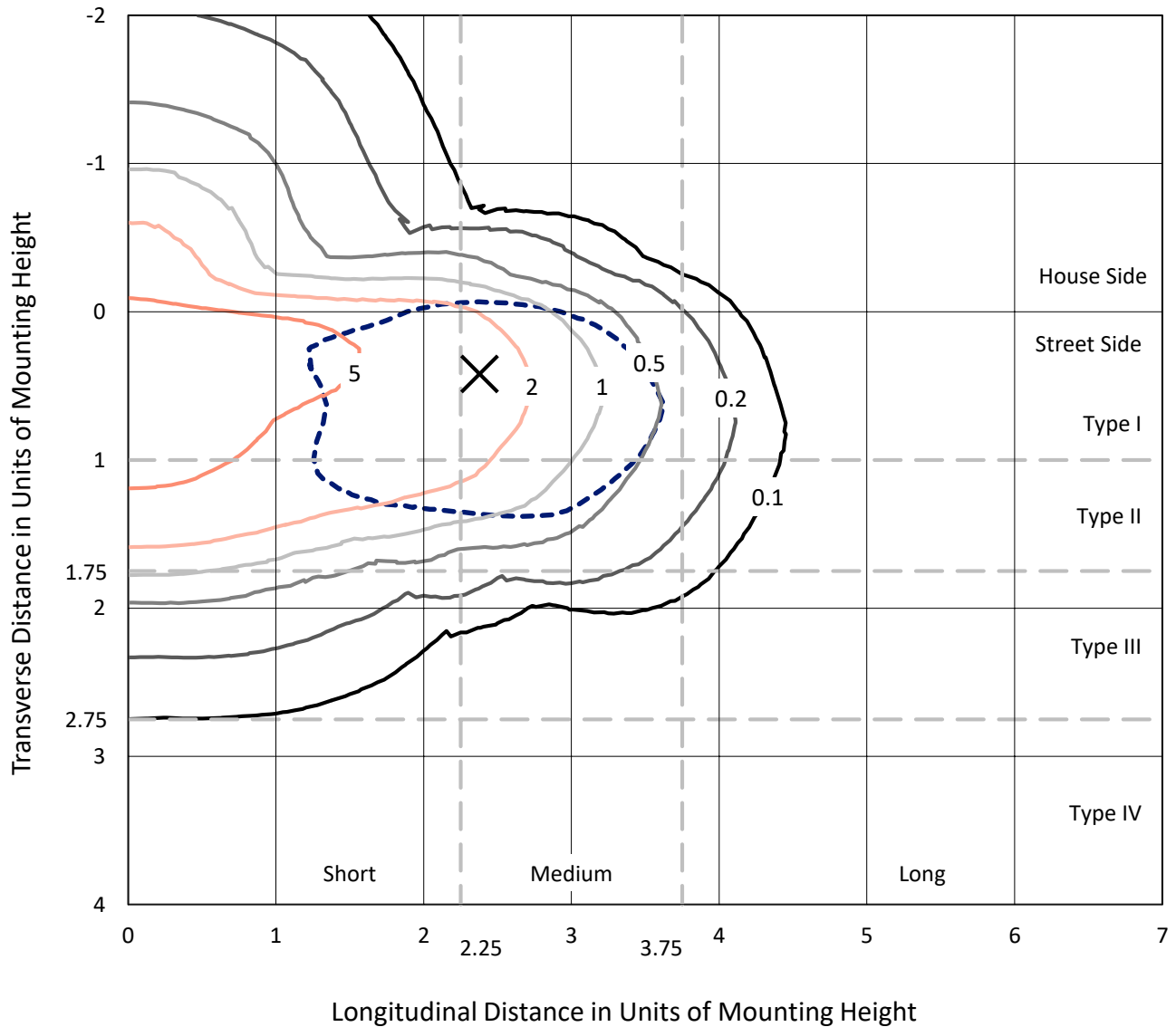


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Iso-Footcandle Lines of Horizontal Illumination

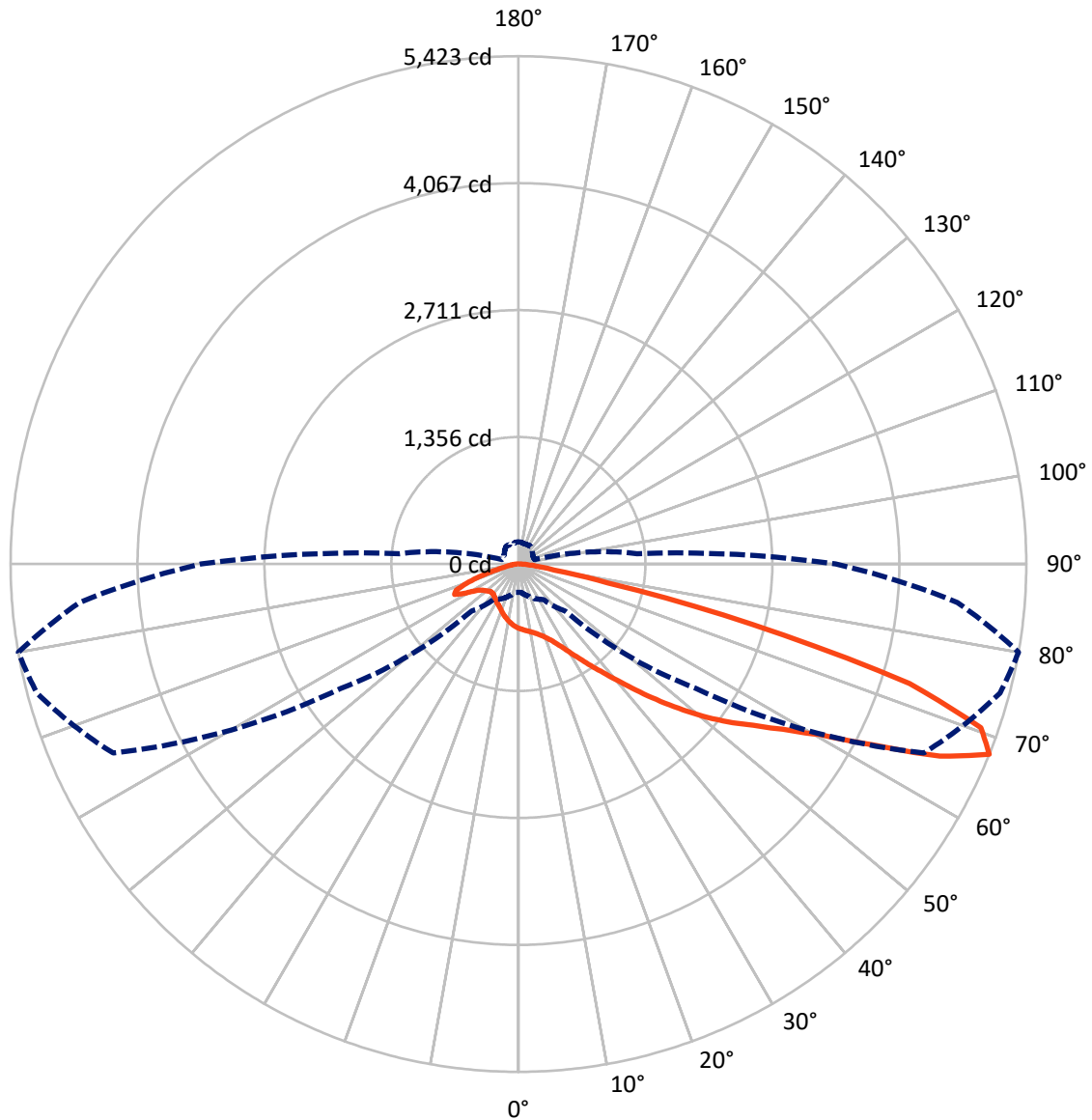
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	909.9	0.0	909.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	4031.1	0.0	4031.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	4941.0	0.0	4941.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	1.3
10°-20°	182.4	3.7
20°-30°	301.9	6.1
30°-40°	493.9	10.0
40°-50°	797.4	16.1
50°-60°	1151.2	23.3
60°-70°	1270.5	25.7
70°-80°	585.6	11.9
80°-90°	94.7	1.9
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°	4941.0	100.0
0°-180°	4941.0	100.0



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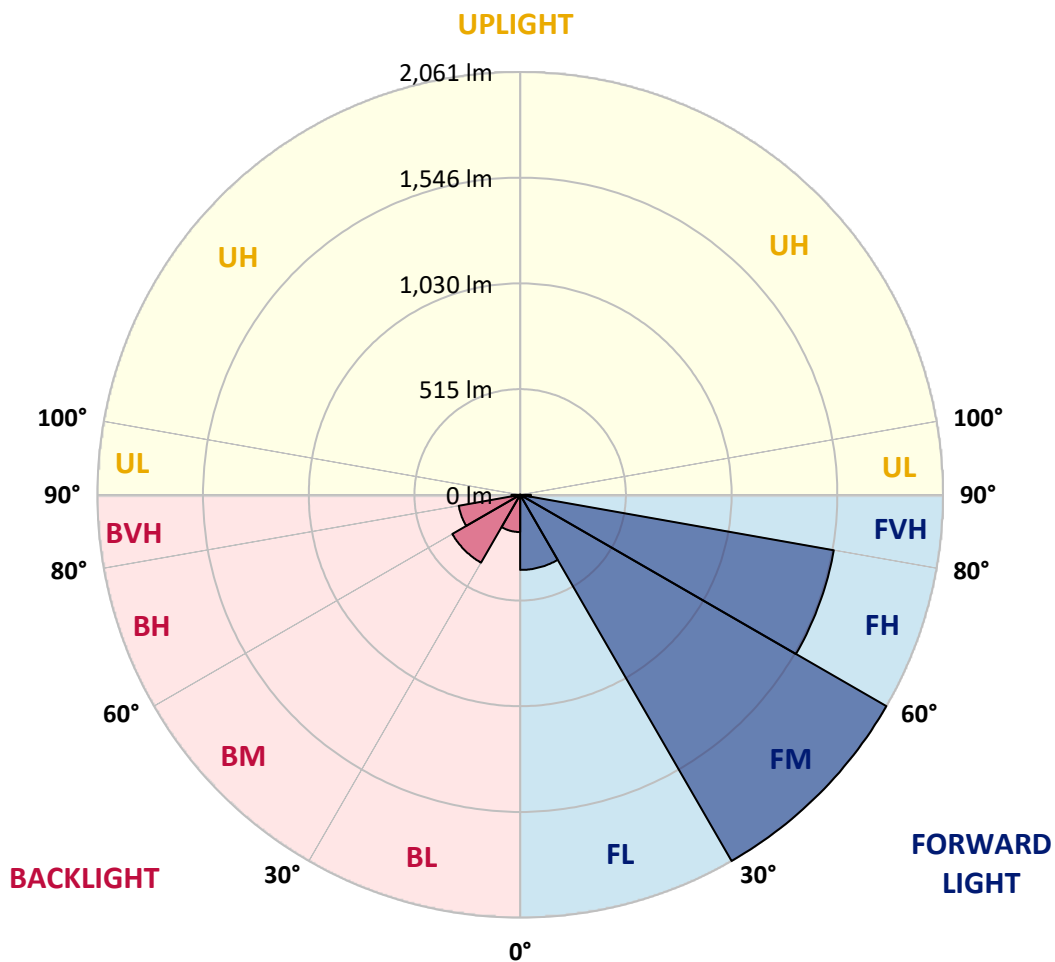
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	366.1	7.4			
FM	(30°-60°)	2060.8	41.7			
FH	(60°-80°)	1552.1	31.4			G1/1800
FVH	(80°-90°)	52.1	1.1			G1/100
BL	(0°-30°)	181.5	3.7	B1/500		
BM	(30°-60°)	381.8	7.7	B1/1000		
BH	(60°-80°)	304.0	6.2	B1/500		G1/500
BVH	(80°-90°)	42.6	0.9			G1/100
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°	80°	85°
0°	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4
2.5°	750.9	746.5	747.3	746.0	742.4	736.1	729.3	716.9	704.0	697.2	691.8
5°	813.7	812.5	810.7	806.9	797.6	784.5	768.2	746.3	722.7	710.3	698.4
7.5°	860.6	859.9	857.7	855.3	846.3	830.5	805.9	774.7	740.4	723.4	704.9
10°	864.5	865.7	867.4	874.0	875.2	866.7	841.6	803.9	758.9	737.0	713.4
12.5°	831.4	834.1	840.7	857.5	875.2	885.7	872.8	834.6	780.6	754.1	724.2
15°	787.6	789.1	797.1	820.2	852.1	884.5	896.6	868.4	808.6	776.0	740.2
17.5°	768.9	769.6	775.2	790.6	820.2	866.5	910.0	905.1	842.9	803.2	759.9
20°	759.4	761.1	769.2	784.2	803.0	843.3	911.9	944.8	883.7	837.3	784.7
22.5°	786.4	785.7	788.6	796.2	812.0	836.3	910.5	985.6	935.8	881.0	817.1
25°	849.4	852.1	847.0	838.5	843.6	860.6	918.3	1029.9	1001.0	937.2	859.4
27.5°	939.2	936.5	929.0	909.0	898.6	905.9	944.0	1077.6	1082.0	1011.2	915.3
30°	1028.7	1026.5	1019.2	994.9	973.5	967.4	994.2	1132.3	1178.5	1100.0	983.9
32.5°	1121.6	1119.2	1112.4	1088.1	1062.3	1048.2	1065.4	1195.6	1292.4	1206.0	1064.7
35°	1236.2	1231.6	1217.2	1183.4	1158.1	1147.2	1155.2	1275.1	1423.7	1331.5	1162.7
37.5°	1344.0	1351.0	1336.4	1289.7	1256.9	1253.0	1262.0	1372.2	1565.3	1471.9	1275.4
40°	1452.2	1453.4	1440.3	1402.1	1368.3	1362.0	1384.6	1489.9	1732.4	1639.7	1412.3
42.5°	1564.1	1566.5	1544.4	1509.1	1484.3	1485.5	1511.3	1627.8	1924.1	1837.5	1569.9
45°	1696.7	1700.3	1676.0	1629.8	1607.1	1652.6	1641.9	1782.5	2134.3	2062.3	1750.9
47.5°	1835.3	1840.9	1822.4	1779.1	1750.9	1813.4	1772.6	1954.0	2360.5	2303.3	1949.6
50°	1911.0	1919.0	1937.0	1933.8	1927.7	1917.3	1918.3	2137.9	2593.8	2554.4	2154.0
52.5°	1870.3	1870.1	1935.8	2015.6	2100.7	2107.0	2095.8	2331.8	2811.7	2799.8	2346.4
55°	1684.5	1697.1	1796.6	1951.1	2183.6	2328.9	2361.9	2553.9	3025.8	3039.6	2541.7
57.5°	1375.1	1385.5	1519.8	1735.1	2071.8	2460.7	2740.4	2876.7	3265.1	3329.8	2801.7
60°	932.6	945.3	1087.6	1346.1	1770.6	2387.2	3100.7	3452.7	3551.7	3698.8	3166.6
62.5°	548.0	559.5	675.5	849.2	1246.7	2046.0	3258.8	4272.2	4006.8	4255.6	3723.2
65°	377.3	385.1	441.5	528.6	716.4	1378.0	3062.7	4838.0	4707.1	4945.5	4368.5
67.5°	303.6	302.6	347.4	406.7	461.2	710.5	2316.0	4774.0	5323.0	5422.5	4703.5
70°	250.1	249.1	279.5	328.6	368.5	400.1	1261.5	4028.7	5197.5	5237.9	4395.0
72.5°	209.2	210.2	229.6	266.1	302.4	301.4	554.4	2834.1	4088.8	4368.0	3503.5
75°	176.6	177.1	190.0	215.8	245.4	242.8	300.7	1535.4	2376.8	2571.1	1942.1
77.5°	150.3	150.8	159.1	173.4	194.6	193.6	219.4	663.3	991.5	979.3	664.3
80°	134.0	134.0	137.9	140.6	152.3	147.9	162.7	318.7	419.1	387.0	265.1
82.5°	105.1	105.6	129.4	128.4	119.9	114.3	114.3	187.8	222.1	205.3	155.2
85°	59.1	58.9	83.4	100.7	105.6	80.5	79.8	105.1	120.9	106.5	75.2
87.5°	25.3	25.8	38.7	44.8	59.8	50.1	49.4	54.2	61.5	53.3	34.8
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°	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4
2.5°	686.7	680.4	666.5	649.2	633.7	623.4	614.2	600.8	601.6	592.3	585.5
5°	686.2	673.1	641.0	602.8	566.0	539.5	519.6	501.6	497.2	488.7	483.6
7.5°	686.7	665.3	611.3	550.2	504.7	471.2	454.1	444.7	442.5	439.6	439.8
10°	688.4	658.2	578.7	501.1	453.4	431.3	427.1	430.1	433.5	434.4	434.7
12.5°	692.3	651.9	542.9	457.3	421.3	414.5	421.6	431.5	438.1	441.3	441.0
15°	701.0	647.0	508.6	423.0	403.6	407.2	420.3	434.4	443.9	448.3	448.6
17.5°	710.5	640.0	473.4	396.7	390.4	399.7	416.0	432.5	444.2	449.0	450.0
20°	722.9	631.2	436.4	377.0	378.0	388.5	403.8	420.3	433.2	437.4	439.3
22.5°	739.2	621.7	404.0	361.0	363.9	371.9	383.8	398.2	409.4	411.3	413.0
25°	761.1	611.5	378.3	346.4	347.6	352.2	360.3	368.8	376.5	374.4	376.1
27.5°	790.6	602.8	359.0	333.0	330.8	331.8	335.9	338.6	342.7	336.7	337.4
30°	825.1	593.3	344.2	321.3	315.3	313.5	314.5	316.0	319.1	310.9	309.7
32.5°	865.2	581.9	330.3	311.1	302.6	299.2	299.7	303.6	315.7	310.6	308.0
35°	911.9	569.0	315.7	299.9	294.1	289.2	288.7	300.9	337.1	334.0	331.5
37.5°	966.7	556.1	301.1	287.3	287.8	282.4	280.7	294.6	341.3	328.9	327.2
40°	1036.2	549.3	288.7	273.9	280.0	279.2	275.8	282.9	314.0	291.4	288.5
42.5°	1122.4	550.2	279.5	259.5	270.7	278.5	273.2	273.4	284.6	267.6	264.9
45°	1228.7	561.7	272.9	248.1	260.3	277.8	272.2	268.3	269.3	260.3	258.8
47.5°	1352.7	585.3	268.3	238.6	250.3	275.1	272.0	266.8	264.7	259.8	258.6
50°	1490.6	619.6	264.9	229.6	241.3	270.7	272.2	265.4	263.0	261.0	260.3
52.5°	1626.1	658.7	259.8	221.8	234.2	265.4	272.9	263.9	261.2	259.8	259.1
55°	1777.2	707.6	252.0	215.3	228.4	258.6	272.9	261.7	258.8	259.1	258.8
57.5°	1981.3	786.7	242.8	209.7	221.4	250.3	268.3	259.3	255.7	255.9	256.1
60°	2300.2	926.0	231.6	204.1	212.6	240.6	262.0	254.0	250.3	251.3	251.5
62.5°	2769.1	1130.6	217.0	195.8	203.4	230.1	253.2	247.1	243.5	245.9	245.9
65°	3256.6	1311.1	199.0	185.4	193.6	218.7	242.3	238.6	235.0	240.6	240.3
67.5°	3387.7	1270.7	181.0	173.9	183.9	206.0	229.1	227.2	225.2	235.0	234.5
70°	3009.5	1020.2	164.4	162.2	173.2	192.4	215.0	215.0	213.8	221.1	219.4
72.5°	2292.9	723.4	148.6	149.8	161.0	177.6	199.7	201.4	199.5	203.1	201.7
75°	1227.4	414.0	132.8	136.2	145.9	162.5	182.7	184.4	183.2	182.9	183.7
77.5°	407.9	202.4	116.3	121.6	130.1	146.9	164.9	167.6	164.7	164.2	163.9
80°	181.7	127.2	98.0	105.1	112.6	129.2	146.2	148.4	145.2	149.6	144.0
82.5°	116.8	83.7	78.6	86.4	93.7	111.4	127.5	127.9	125.0	145.2	123.8
85°	56.7	51.8	59.1	66.2	72.5	87.6	105.6	105.8	98.5	89.8	86.6
87.5°	28.2	30.2	39.4	45.7	48.9	60.1	76.9	75.4	72.2	65.7	60.6
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)