

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: P193179

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4871.9 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - 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



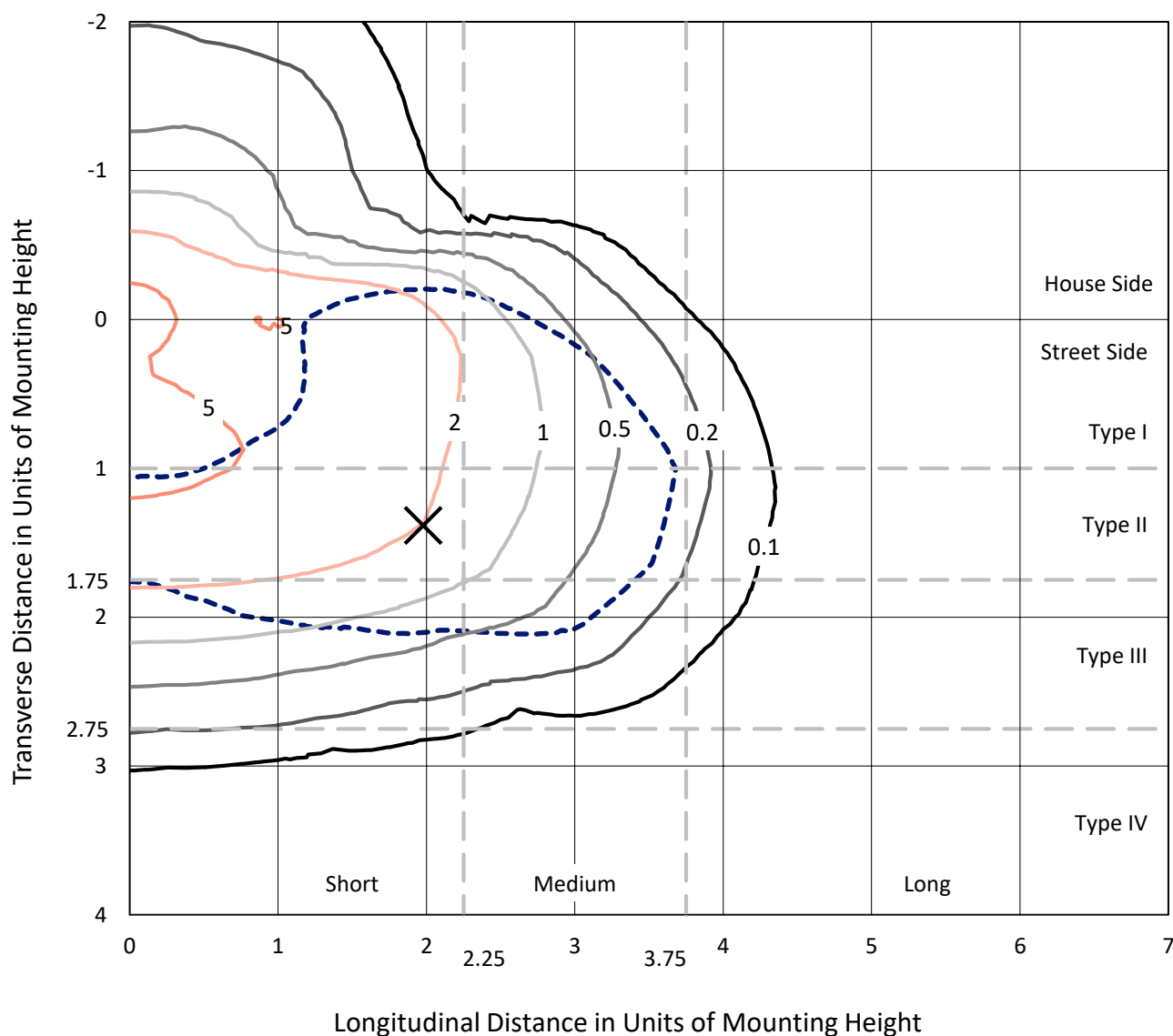
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

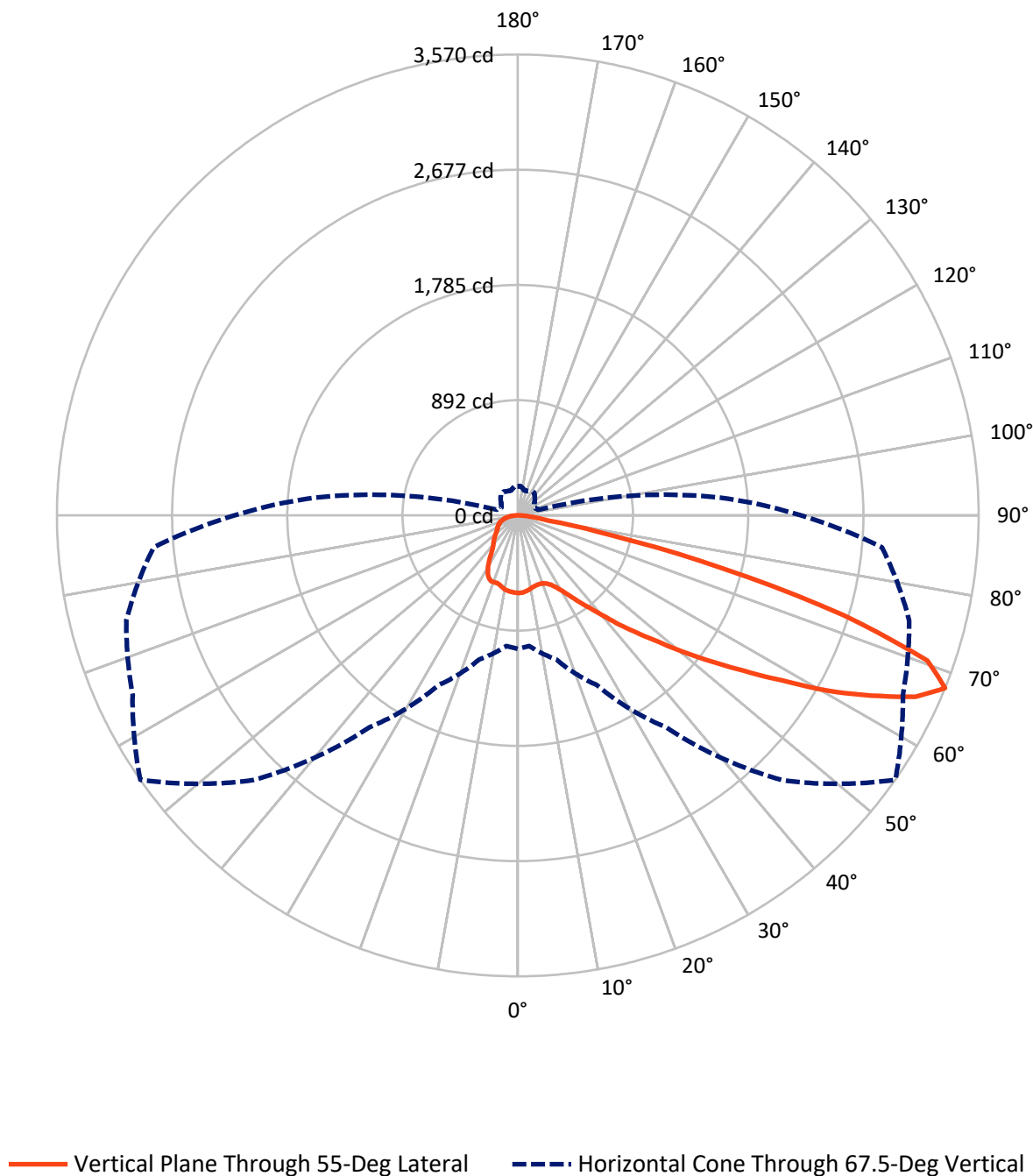


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1052.4	0.0	1052.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	3819.5	0.0	3819.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	4871.9	0.0	4871.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.2
10°-20°	158.8	3.3
20°-30°	266.0	5.5
30°-40°	437.5	9.0
40°-50°	736.4	15.1
50°-60°	1159.0	23.8
60°-70°	1383.2	28.4
70°-80°	594.0	12.2
80°-90°	81.0	1.7
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°	4871.9	100.0
0°-180°	4871.9	100.0

Coefficient of Utilization



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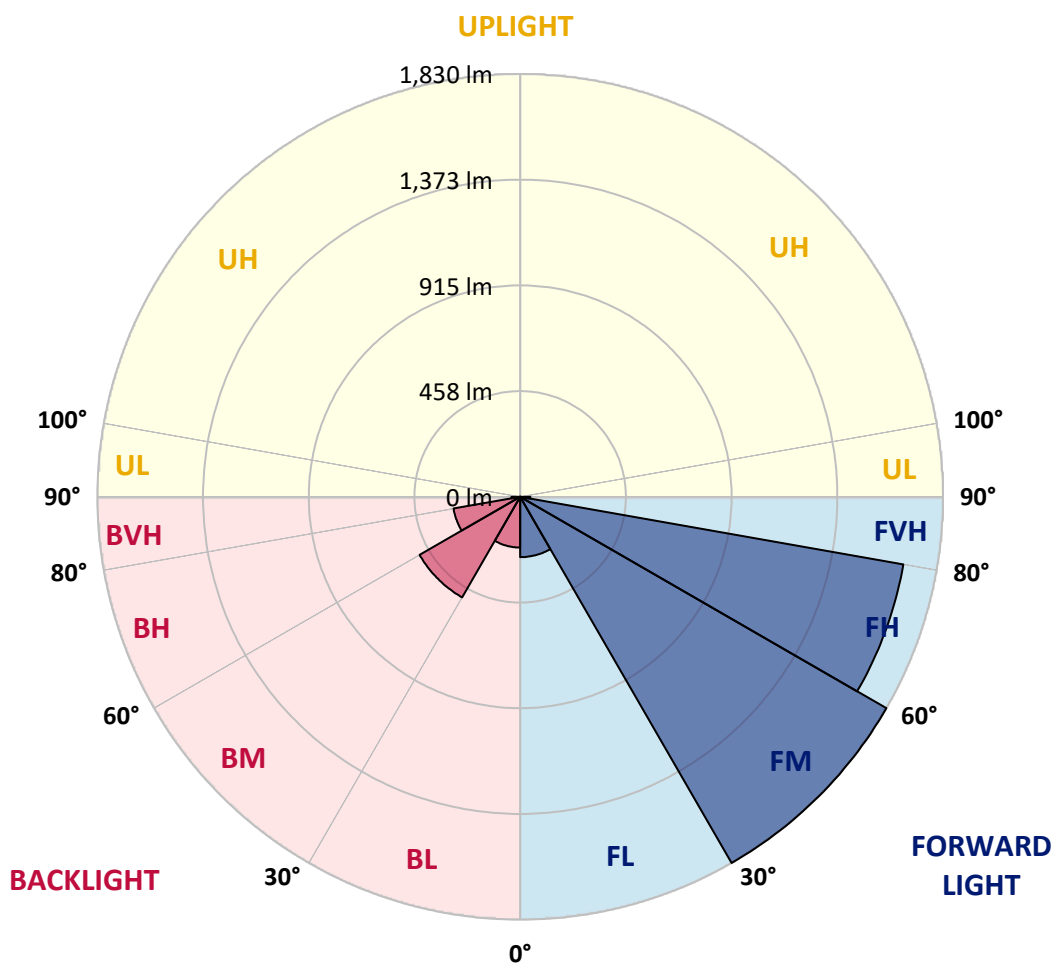
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.1	5.4			
FM	(30°-60°)	1830.2	37.6			
FH	(60°-80°)	1684.2	34.6			G1/1800
FVH	(80°-90°)	43.8	0.9			G1/100
BL	(0°-30°)	219.8	4.5	B1/500		
BM	(30°-60°)	502.6	10.3	B1/1000		
BH	(60°-80°)	292.9	6.0	B1/500		G1/500
BVH	(80°-90°)	37.1	0.8			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7
2.5°	595.6	595.8	596.3	598.2	599.9	599.4	599.7	598.6	598.4	597.0	598.4
5°	588.1	588.8	589.0	592.0	594.0	594.4	593.8	592.5	591.1	589.7	590.4
7.5°	570.9	572.7	572.9	577.2	580.2	584.3	584.5	584.7	584.1	583.1	584.5
10°	560.1	560.5	560.3	563.3	565.8	570.2	572.7	577.2	579.1	579.6	580.5
12.5°	559.3	558.9	558.2	558.2	557.4	559.3	564.0	570.5	574.9	576.3	577.4
15°	566.8	566.6	564.4	560.7	556.2	554.8	558.9	566.0	571.9	574.9	576.1
17.5°	583.8	582.4	578.6	570.7	560.9	557.2	557.7	563.6	570.5	574.3	575.6
20°	614.9	614.9	606.8	591.8	574.6	565.8	561.5	565.0	571.5	577.0	578.6
22.5°	668.5	669.0	655.5	630.9	601.9	582.9	572.3	571.5	579.3	585.4	587.4
25°	744.5	742.6	723.9	688.6	644.5	613.0	594.6	590.4	597.0	603.7	606.2
27.5°	833.0	826.2	803.8	761.2	704.2	658.2	629.9	623.1	629.5	637.2	639.6
30°	920.5	913.5	886.8	840.3	777.1	718.6	678.2	667.1	676.1	687.1	688.6
32.5°	1008.1	1008.1	978.4	924.2	855.2	790.9	742.4	729.2	744.0	757.5	760.6
35°	1112.8	1113.3	1084.5	1019.2	945.0	877.1	823.6	814.0	836.3	845.6	853.0
37.5°	1241.5	1244.1	1207.2	1128.1	1046.9	975.3	911.9	898.6	921.0	946.6	970.2
40°	1380.6	1383.9	1343.2	1245.8	1164.6	1089.8	1021.0	997.2	1034.4	1083.5	1113.8
42.5°	1513.4	1530.2	1491.0	1390.7	1303.4	1226.0	1156.3	1121.8	1168.3	1242.2	1268.6
45°	1705.1	1717.3	1648.8	1558.0	1475.9	1389.3	1297.0	1260.6	1325.8	1419.0	1424.3
47.5°	1832.9	1823.6	1788.9	1732.5	1680.4	1599.4	1460.6	1420.6	1507.2	1616.8	1586.5
50°	1900.9	1903.8	1898.9	1902.3	1904.2	1853.4	1661.1	1606.2	1709.6	1842.0	1772.1
52.5°	1964.4	1945.6	1961.1	2038.2	2131.4	2112.6	1879.3	1822.0	1926.5	2092.0	1968.5
55°	1963.0	1934.3	1984.9	2121.2	2323.3	2344.9	2124.2	2058.3	2155.9	2360.0	2176.5
57.5°	1893.6	1895.0	1972.9	2151.2	2456.9	2563.2	2408.4	2309.6	2399.3	2631.5	2366.3
60°	1798.1	1811.0	1923.2	2146.3	2564.0	2742.3	2757.1	2580.4	2637.6	2878.3	2523.5
62.5°	1644.0	1657.6	1812.4	2095.0	2547.7	2914.8	3072.5	2887.7	2886.8	3028.0	2569.7
65°	1400.8	1396.8	1559.4	1903.2	2411.5	3042.4	3385.7	3153.4	3074.5	3030.5	2476.9
67.5°	1033.0	1015.1	1154.7	1449.6	2004.4	2899.5	3569.9	3291.8	3138.6	2831.0	2193.6
70°	536.0	518.1	631.1	846.4	1318.2	2263.0	3366.0	3220.3	2997.2	2373.1	1718.5
72.5°	229.2	226.1	272.0	371.4	637.7	1305.3	2639.2	2787.3	2571.8	1768.2	1181.5
75°	154.2	153.2	170.3	202.3	286.8	529.7	1651.7	1978.4	1881.6	1096.3	664.6
77.5°	121.0	119.7	129.9	145.5	185.8	208.9	733.0	1062.2	983.2	477.3	290.8
80°	94.6	93.6	100.0	108.5	133.7	131.7	241.3	422.7	327.1	182.8	141.4
82.5°	74.7	74.7	79.8	80.0	94.8	89.9	125.8	186.2	163.4	106.6	86.7
85°	68.3	68.3	73.6	59.8	61.8	56.7	78.1	110.4	103.6	43.8	37.7
87.5°	34.3	33.5	61.8	53.0	33.7	30.1	38.1	53.4	57.5	24.2	18.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7
2.5°	597.9	597.6	598.2	598.4	600.3	602.9	604.1	605.8	606.6	606.2
5°	590.9	591.3	593.3	594.6	597.9	602.1	604.5	606.4	608.0	607.4
7.5°	585.0	586.1	589.0	590.2	592.0	593.3	592.9	593.8	595.1	593.5
10°	581.7	583.1	585.2	583.6	579.1	572.7	566.8	563.8	564.8	563.6
12.5°	578.4	580.2	578.6	570.9	558.5	550.1	545.6	546.2	548.3	548.7
15°	576.6	577.2	570.2	555.6	542.9	541.7	544.0	543.6	543.8	543.8
17.5°	576.6	574.6	561.5	546.9	541.5	539.3	532.1	523.0	518.9	517.5
20°	579.6	574.6	558.7	549.0	537.2	519.1	499.8	482.8	475.4	473.2
22.5°	588.8	580.2	566.6	549.9	516.5	486.2	455.6	435.3	421.6	419.3
25°	607.4	597.9	582.4	537.4	483.6	440.4	405.5	382.9	369.2	367.3
27.5°	639.8	633.7	590.9	509.9	439.8	393.5	361.2	343.8	333.7	333.0
30°	688.8	685.7	586.6	469.3	385.9	348.0	332.4	322.5	314.8	314.6
32.5°	766.9	742.2	572.7	419.5	336.7	315.8	309.4	303.3	297.4	297.4
35°	867.4	787.9	546.4	366.3	306.8	297.9	289.9	280.2	272.5	272.0
37.5°	985.5	816.0	499.1	323.5	292.7	285.9	274.1	259.8	246.2	243.7
40°	1104.8	824.6	432.5	297.1	283.7	273.9	259.6	242.5	229.5	228.7
42.5°	1214.2	808.3	361.8	279.0	274.9	261.6	246.6	231.5	221.1	220.9
45°	1305.9	766.1	302.6	261.9	265.4	250.6	237.2	225.0	217.0	215.3
47.5°	1392.4	706.7	260.9	243.7	256.0	244.5	233.2	221.7	213.9	212.7
50°	1492.6	642.5	231.7	226.1	247.8	242.3	236.4	224.5	211.5	210.1
52.5°	1614.0	586.8	208.9	210.7	241.5	245.2	245.0	232.5	209.9	208.0
55°	1749.6	525.2	191.7	197.9	238.8	250.4	247.0	240.1	211.3	208.4
57.5°	1883.0	453.2	179.7	188.3	235.1	249.8	237.0	226.8	214.5	210.7
60°	1982.9	356.5	170.6	179.7	226.8	242.1	225.9	212.5	213.9	210.9
62.5°	1989.6	275.6	159.5	172.5	214.3	234.4	218.6	206.2	217.0	214.1
65°	1872.6	208.2	148.9	163.8	200.9	229.5	211.5	202.5	223.3	220.2
67.5°	1576.6	167.5	140.0	154.8	187.6	219.1	205.2	199.3	229.0	223.6
70°	1138.3	142.8	131.3	144.0	175.6	207.3	199.5	193.4	213.7	205.2
72.5°	700.8	123.8	121.4	129.7	166.4	195.0	191.1	182.4	192.6	185.6
75°	349.9	107.3	110.4	115.5	153.4	181.2	177.0	168.3	169.7	168.3
77.5°	167.5	91.8	97.5	101.4	136.7	165.4	160.9	152.0	150.3	150.6
80°	106.1	76.7	82.2	84.9	122.2	147.1	142.6	133.7	152.5	141.4
82.5°	66.3	62.4	63.8	69.0	106.3	128.1	122.2	114.1	137.4	108.7
85°	36.7	43.4	45.5	49.9	81.8	107.1	101.2	91.0	81.6	80.2
87.5°	21.9	25.9	26.6	29.9	55.0	77.5	68.5	64.9	53.9	53.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)