

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: P192269

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4198 lumens
Efficiency: N/A
Efficacy: 123.5 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): 34
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

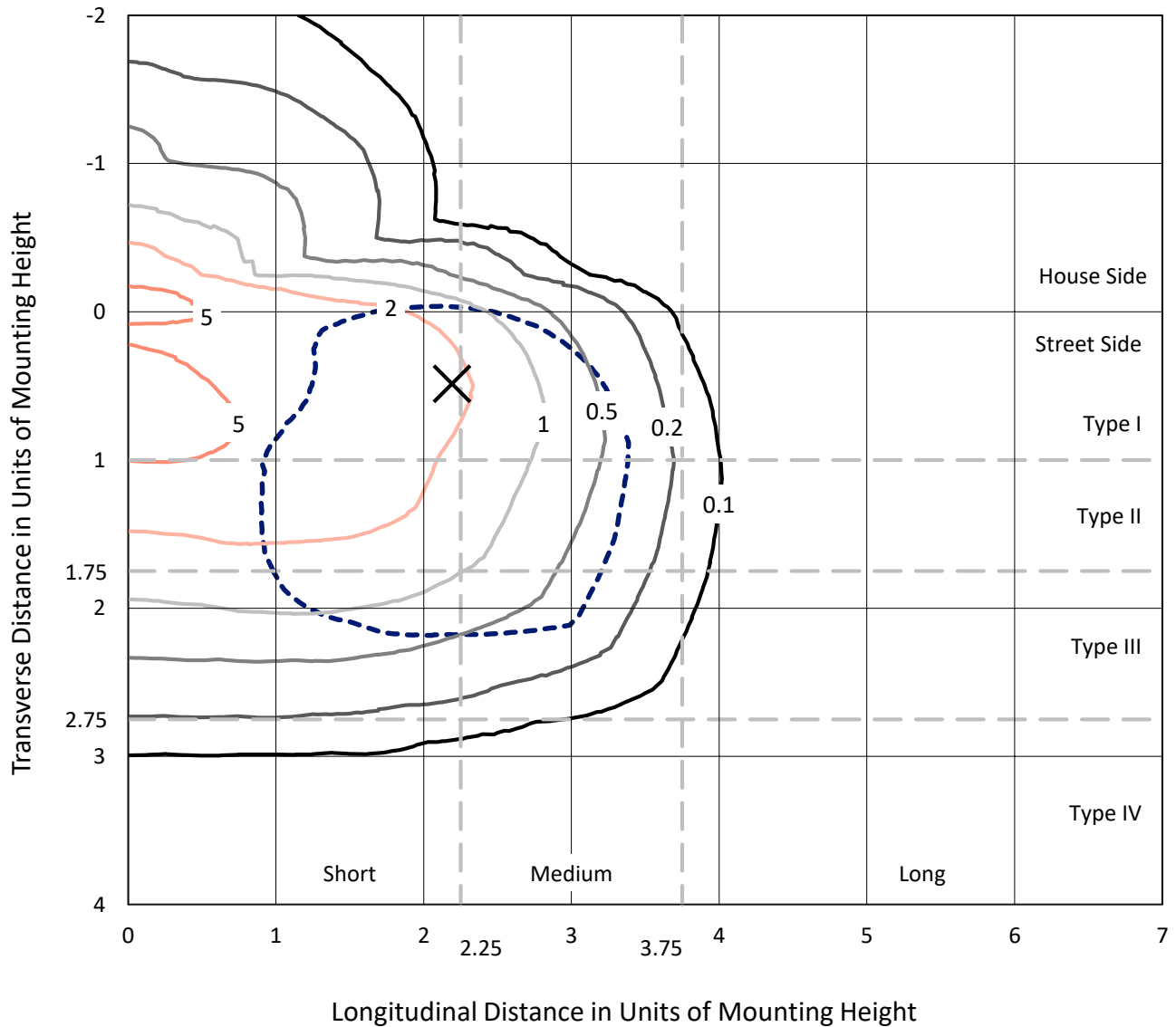


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

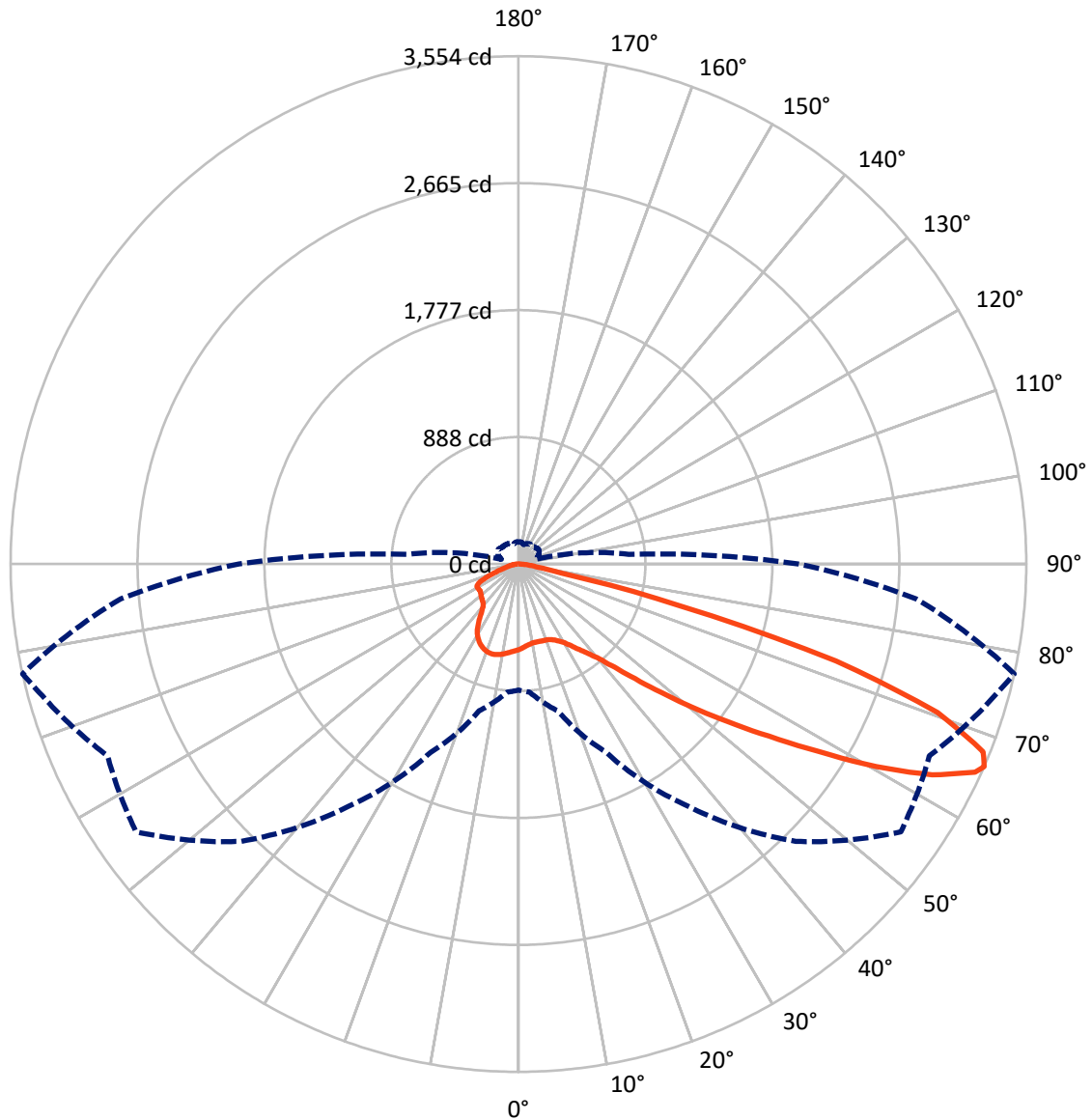


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	717.2	0.0	717.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	3480.8	0.0	3480.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	4198.0	0.0	4198.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.3
10°-20°	150.8	3.6
20°-30°	257.3	6.1
30°-40°	411.9	9.8
40°-50°	636.4	15.2
50°-60°	902.7	21.5
60°-70°	1207.5	28.8
70°-80°	524.4	12.5
80°-90°	53.5	1.3
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°	4198.0	100.0
0°-180°	4198.0	100.0



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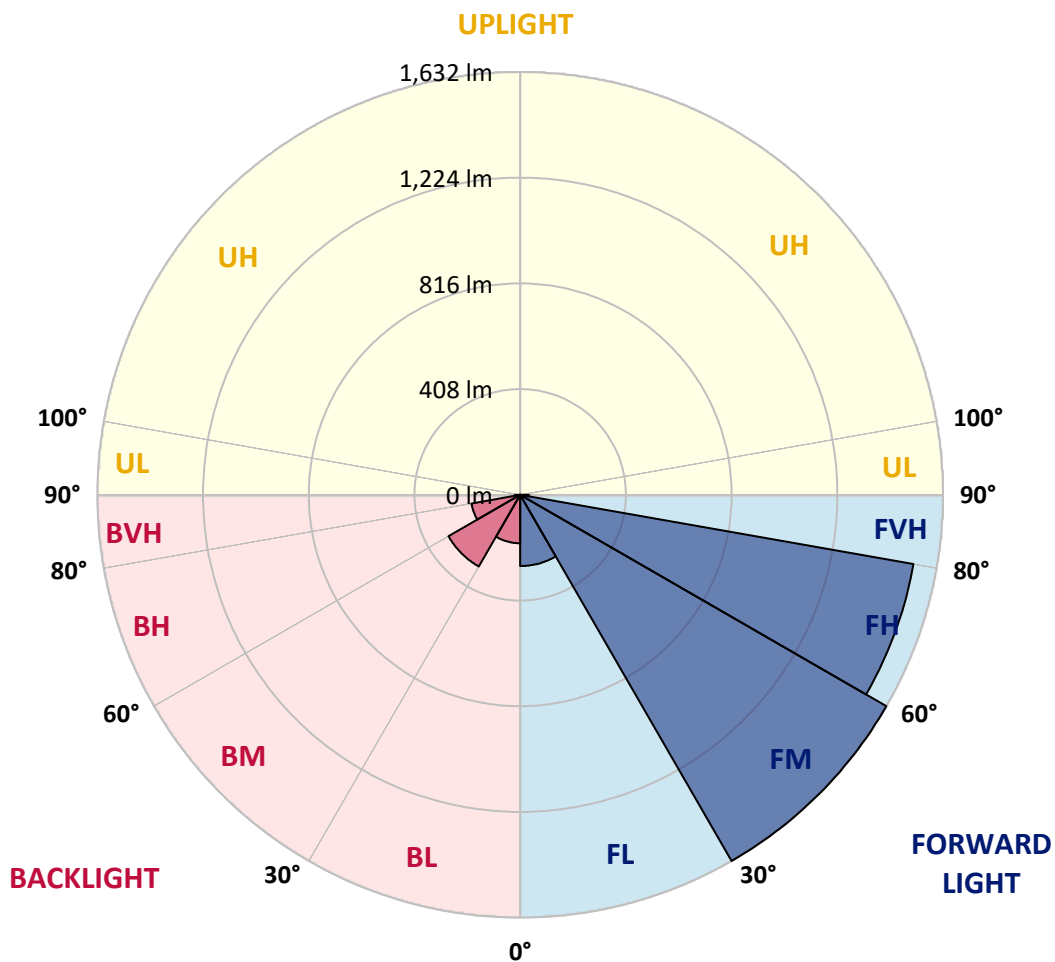
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.8	6.5			
FM	(30°-60°)	1631.6	38.9			
FH	(60°-80°)	1540.9	36.7			G1/1800
FVH	(80°-90°)	33.5	0.8			G1/100
BL	(0°-30°)	186.8	4.4	B1/500		
BM	(30°-60°)	319.5	7.6	B1/1000		
BH	(60°-80°)	191.0	4.5	B1/500		G1/500
BVH	(80°-90°)	19.9	0.5			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°	77.5°	85°
0°	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2
2.5°	529.2	532.8	535.8	538.5	544.1	553.2	563.7	572.3	584.5	586.9	593.5
5°	480.6	480.6	483.0	487.2	494.7	508.4	522.7	541.7	568.5	574.8	592.3
7.5°	457.0	457.2	458.6	462.2	468.7	481.2	496.9	519.3	555.6	566.1	595.9
10°	465.7	463.8	460.8	459.0	460.0	467.3	482.2	507.2	547.7	561.1	603.8
12.5°	514.5	510.8	500.4	486.8	473.7	468.3	477.0	501.4	544.3	560.0	614.3
15°	594.3	592.7	573.4	545.1	513.3	486.8	480.8	499.3	544.7	561.3	626.8
17.5°	694.2	692.1	666.7	625.4	573.6	521.9	494.1	501.0	546.1	563.7	638.9
20°	795.2	788.5	761.1	711.9	645.4	569.7	516.1	505.6	547.9	566.3	651.6
22.5°	870.6	865.0	840.4	792.6	716.1	625.0	545.7	513.5	553.6	573.8	667.3
25°	936.8	937.2	912.8	866.6	787.5	683.7	583.8	534.8	568.3	589.3	688.7
27.5°	1018.7	1014.0	991.2	945.4	858.1	743.0	629.8	563.9	590.1	611.3	716.9
30°	1116.7	1113.4	1087.0	1035.0	936.4	806.7	682.3	597.8	618.3	640.3	753.7
32.5°	1232.0	1230.4	1203.0	1136.2	1026.9	881.7	744.0	642.7	660.3	683.1	806.7
35°	1367.3	1367.5	1335.1	1254.8	1125.9	969.0	814.0	700.4	711.5	735.3	869.8
37.5°	1450.6	1460.7	1448.6	1366.7	1237.9	1066.5	904.9	777.0	769.8	793.8	937.4
40°	1468.4	1480.7	1519.0	1477.3	1363.3	1174.1	985.4	850.5	841.6	871.0	1024.5
42.5°	1443.4	1460.5	1541.4	1570.8	1496.4	1306.6	1093.7	959.8	948.5	988.0	1132.8
45°	1428.5	1441.2	1534.9	1619.4	1611.8	1456.3	1231.6	1097.1	1092.9	1144.7	1257.8
47.5°	1402.8	1414.3	1504.3	1630.7	1679.7	1593.6	1397.2	1264.9	1273.0	1340.9	1398.8
50°	1416.6	1421.4	1470.2	1601.9	1699.3	1694.1	1582.3	1459.3	1487.1	1571.8	1558.5
52.5°	1414.7	1427.0	1466.2	1554.7	1701.9	1756.2	1764.6	1676.1	1734.6	1831.8	1735.6
55°	1143.7	1166.3	1419.6	1542.8	1711.0	1817.1	1926.8	1904.6	2013.7	2126.9	1935.5
57.5°	1092.1	1106.4	1246.9	1567.8	1759.4	1933.4	2107.3	2156.1	2338.6	2470.1	2179.1
60°	1082.0	1099.7	1245.1	1598.3	1857.6	2122.8	2374.9	2460.6	2733.9	2877.9	2461.6
62.5°	1050.5	1069.5	1233.4	1594.4	1997.0	2384.8	2717.4	2784.3	3108.8	3248.8	2697.8
65°	950.5	968.4	1138.0	1530.3	2091.0	2664.5	3122.9	3081.0	3404.7	3510.1	2815.6
66°	882.1	899.5	1062.8	1454.9	2069.2	2743.8	3266.5	3172.9	3471.0	3553.5	2792.6
67.5°	756.9	770.6	916.8	1286.1	1953.2	2766.0	3387.3	3241.9	3477.9	3507.1	2661.1
70°	478.2	482.2	595.9	887.8	1478.5	2398.9	3203.4	3070.5	3191.1	3112.2	2230.9
72.5°	207.5	206.1	286.0	451.7	837.1	1609.6	2591.3	2533.6	2503.2	2323.1	1561.6
75°	115.4	117.0	148.6	209.7	340.2	790.6	1695.1	1622.1	1369.6	1168.7	708.1
77.5°	92.6	94.8	123.2	148.8	152.7	275.7	793.2	645.4	388.6	311.8	196.8
80°	73.2	77.2	107.5	115.8	102.9	113.7	256.3	204.9	153.7	141.0	102.0
82.5°	57.9	60.7	92.2	87.7	72.0	76.6	122.8	119.6	100.0	91.0	58.9
85°	41.7	46.8	75.8	66.1	47.2	51.6	81.5	78.2	57.3	46.8	26.0
87.5°	17.1	22.2	53.6	43.8	26.4	24.0	40.7	38.3	27.2	19.8	12.9
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°	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2
2.5°	597.6	602.4	608.5	612.3	614.3	615.7	617.9	617.7	618.3	618.5	619.3
5°	601.6	609.5	618.5	620.8	620.8	618.7	616.5	612.9	611.5	611.1	611.5
7.5°	611.9	620.6	628.4	625.6	619.7	610.9	599.6	589.7	584.4	582.6	582.2
10°	625.0	635.5	638.7	628.2	610.7	589.7	567.3	551.0	541.7	539.1	538.3
12.5°	640.9	650.8	646.4	624.2	591.9	558.0	527.0	501.0	481.6	475.5	475.1
15°	658.3	666.1	650.8	611.9	563.7	513.7	458.6	413.8	389.6	381.8	381.2
17.5°	674.6	678.6	648.2	590.5	522.3	441.3	368.1	333.6	325.3	327.3	327.7
20°	688.5	688.5	639.5	559.8	457.0	345.9	299.7	299.1	305.1	311.0	312.2
22.5°	703.8	694.6	624.2	516.3	364.6	283.1	276.3	281.9	288.6	295.2	296.1
25°	722.6	699.6	603.0	450.5	286.6	257.1	259.6	264.2	267.6	271.7	272.3
27.5°	743.6	705.9	575.0	359.8	248.7	240.8	242.8	244.4	244.0	245.6	246.0
30°	768.8	713.3	536.7	281.3	233.1	226.9	223.3	222.0	222.0	224.5	225.5
32.5°	802.5	724.2	481.8	241.0	225.5	217.0	205.5	200.3	202.3	211.0	213.0
35°	839.6	735.9	407.4	227.3	223.9	212.4	194.6	185.1	185.3	193.4	196.0
37.5°	880.1	750.8	325.9	224.7	227.5	212.6	188.8	175.7	170.4	170.4	171.4
40°	931.9	766.0	263.8	226.5	235.0	215.0	185.9	168.4	153.3	153.7	154.5
42.5°	999.3	779.1	230.5	230.3	244.2	218.2	185.7	158.7	145.6	154.5	162.7
45°	1074.3	785.7	215.8	233.7	251.5	220.2	182.5	157.1	146.6	173.2	188.6
47.5°	1160.6	781.9	207.7	234.9	253.3	220.2	178.9	160.9	153.5	200.5	218.6
50°	1255.2	771.0	199.7	232.5	252.7	219.8	182.3	164.6	156.1	205.3	217.8
52.5°	1366.5	761.9	191.4	227.3	248.5	217.6	186.3	163.0	148.0	186.7	195.4
55°	1493.4	764.5	182.1	220.0	242.0	213.4	184.9	156.7	139.4	164.4	169.8
57.5°	1655.7	795.2	171.0	210.7	233.1	206.5	179.9	153.7	136.9	149.2	152.3
60°	1836.8	848.8	157.1	201.3	222.0	195.4	176.1	155.1	138.1	148.0	149.6
62.5°	1969.7	879.9	145.2	187.6	206.9	183.1	171.4	156.9	141.2	152.1	151.7
65°	2005.8	828.7	130.3	167.6	186.5	170.2	165.4	158.9	142.6	155.5	153.7
66°	1955.2	773.6	123.8	158.3	176.1	163.8	162.5	158.7	142.0	155.9	152.9
67.5°	1832.4	660.5	112.5	144.6	159.7	154.3	157.7	156.9	140.4	155.5	151.3
70°	1494.4	450.7	96.2	120.4	132.9	135.9	148.6	150.6	135.3	148.6	139.4
72.5°	1044.1	274.5	85.1	93.4	107.5	115.8	136.1	141.8	128.3	129.7	121.0
75°	504.6	145.8	77.2	72.4	83.5	96.8	121.0	129.9	117.4	108.5	105.3
77.5°	157.3	89.1	65.5	58.3	65.5	78.2	101.2	113.9	104.5	90.8	89.7
80°	84.5	65.5	50.4	46.8	51.8	61.3	79.5	95.0	89.9	81.5	72.8
82.5°	55.7	42.4	37.3	36.3	39.5	46.8	59.1	78.7	78.7	69.8	50.8
85°	28.8	26.0	25.6	25.6	27.6	31.1	40.3	60.7	64.7	36.9	30.5
87.5°	14.3	14.9	13.9	14.5	15.5	15.3	19.2	30.5	36.5	22.4	18.6
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)