

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: P298856

Luminaire Tested: **GLNA-AF-01-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298856
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: GLNA-AF-01-LED-E1-T2-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5895.5 lumens
Efficiency: N/A
Efficacy: 99.9 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 - G2

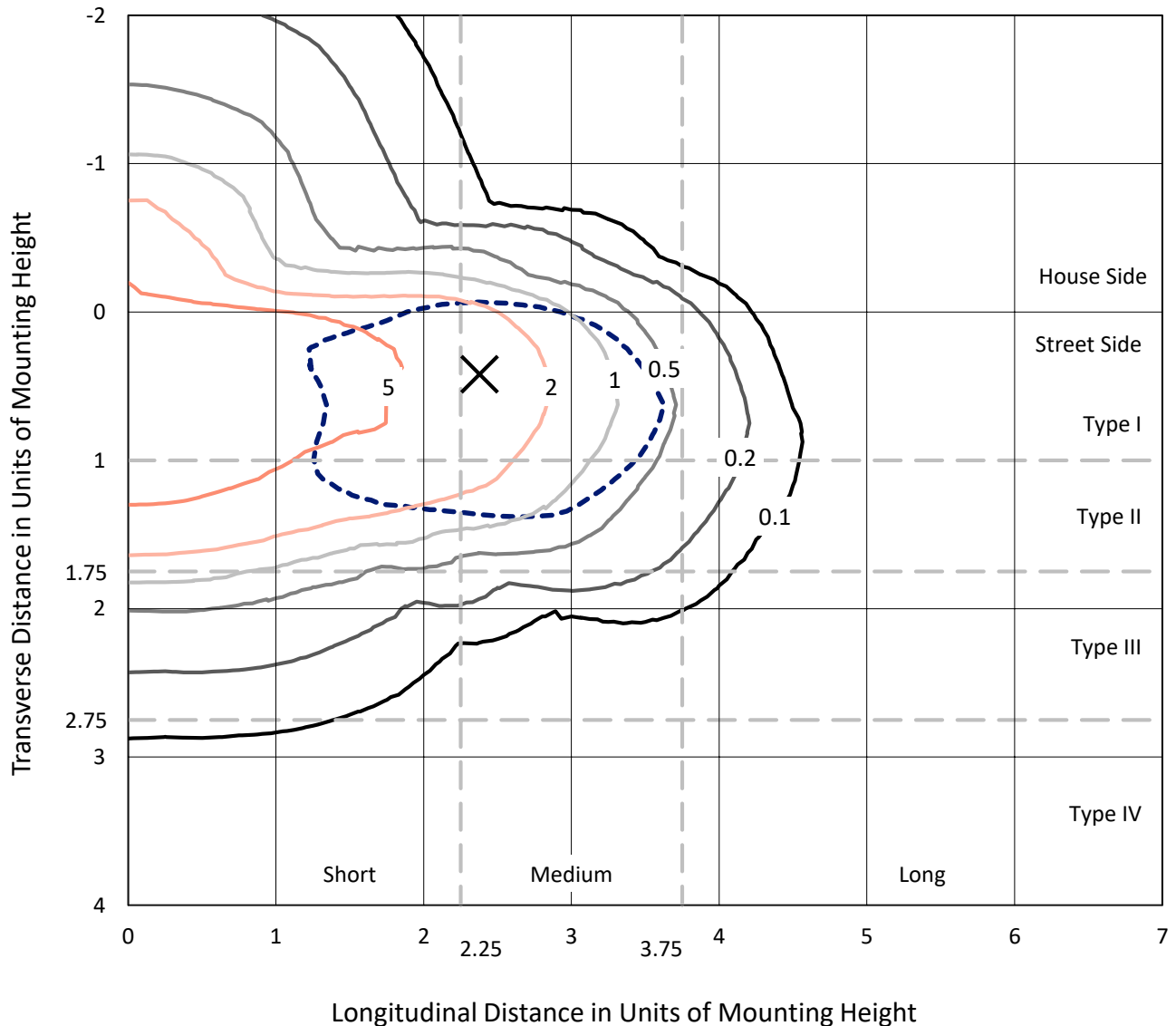
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

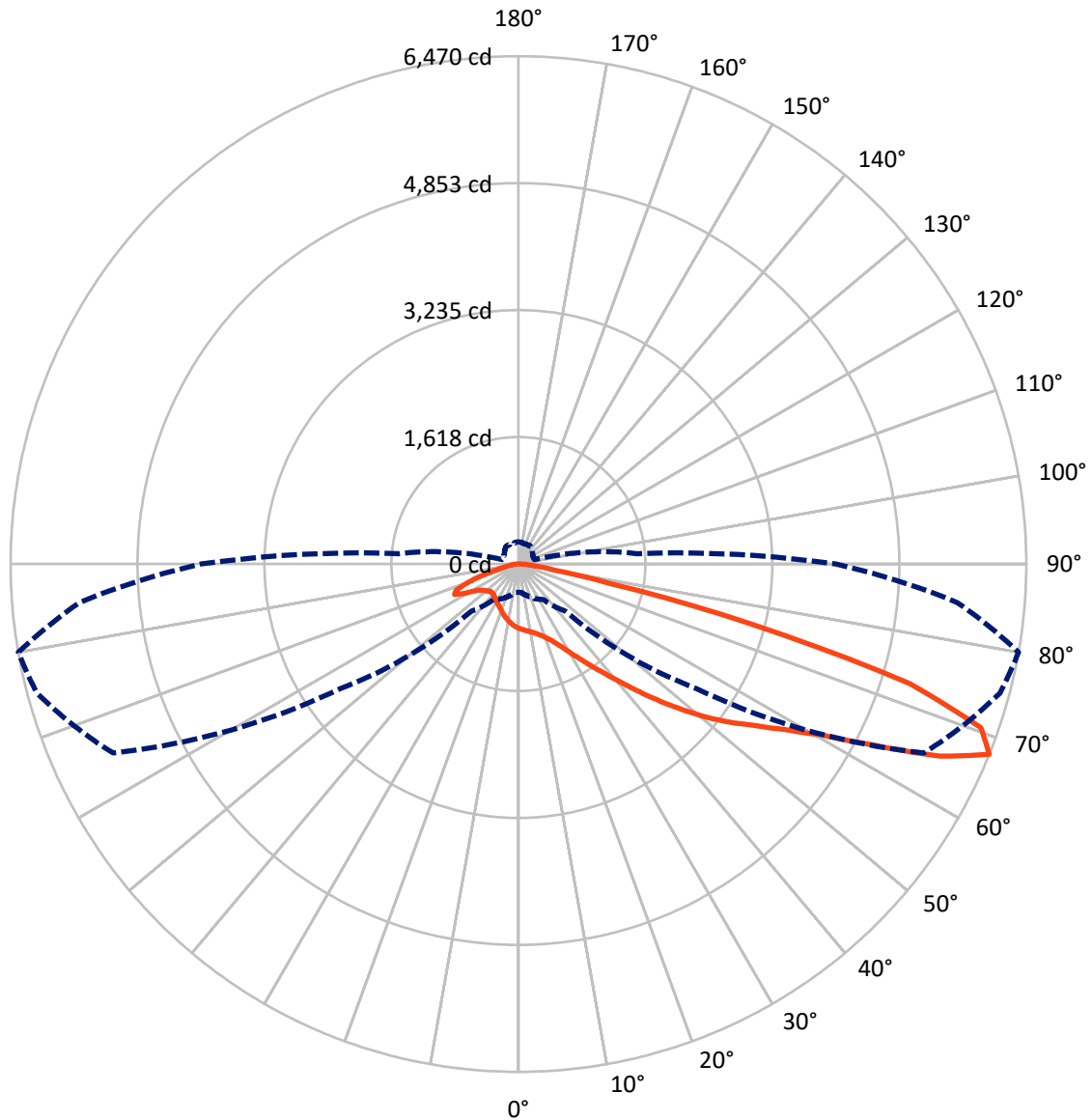
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10 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	1085.7	0.0	1085.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	4809.8	0.0	4809.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	5895.5	0.0	5895.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.3
10°-20°	217.7	3.7
20°-30°	360.3	6.1
30°-40°	589.3	10.0
40°-50°	951.5	16.1
50°-60°	1373.6	23.3
60°-70°	1515.9	25.7
70°-80°	698.7	11.9
80°-90°	113.0	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°	5895.5	100.0
0°-180°	5895.5	100.0



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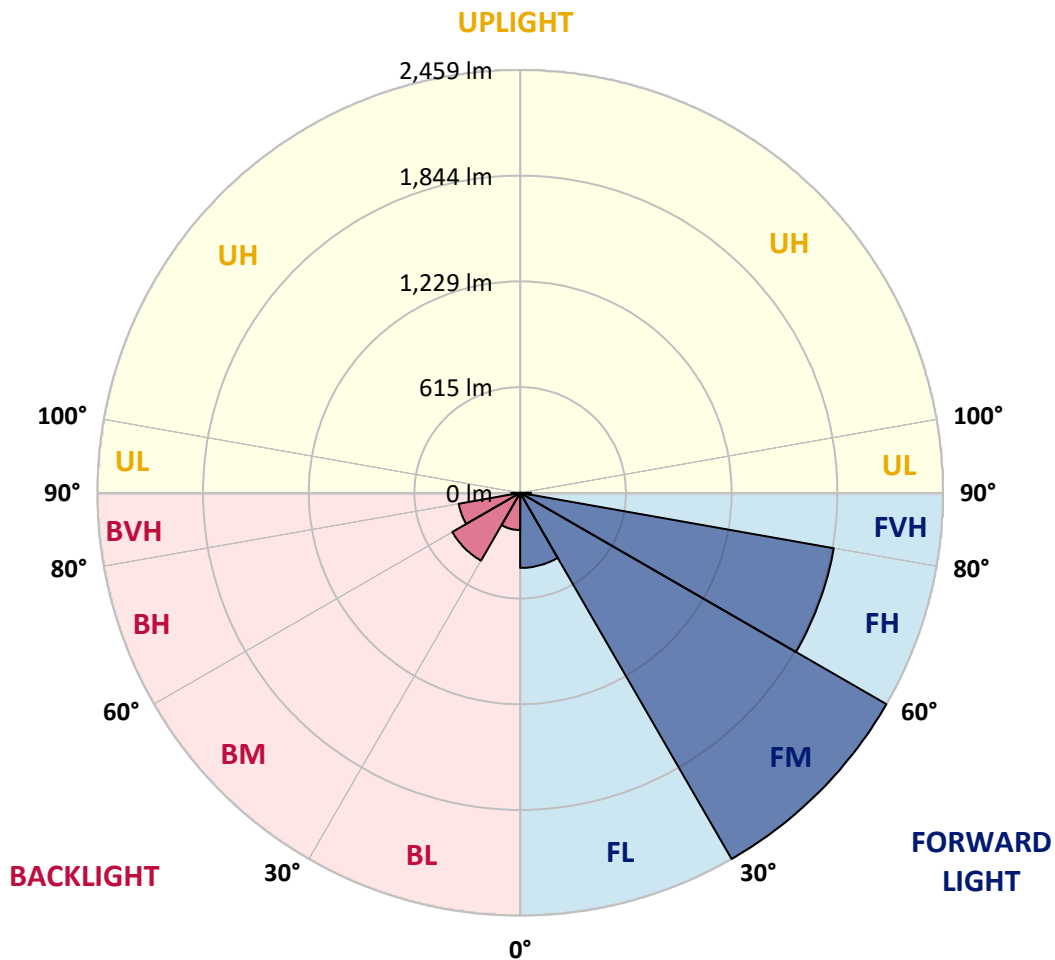
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	436.8	7.4			
FM (30°-60°)	2458.9	41.7			
FH (60°-80°)	1851.9	31.4			G2/5000
FVH (80°-90°)	62.1	1.1			G1/100
BL (0°-30°)	216.6	3.7	B1/500		
BM (30°-60°)	455.5	7.7	B1/1000		
BH (60°-80°)	362.7	6.2	B1/500		G1/500
BVH (80°-90°)	50.9	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1
2.5°	896.0	890.8	891.6	890.2	885.8	878.3	870.1	855.3	840.0	831.8	825.4
5°	970.9	969.4	967.4	962.7	951.7	936.0	916.6	890.5	862.3	847.5	833.3
7.5°	1026.9	1026.0	1023.4	1020.5	1009.8	990.9	961.6	924.4	883.5	863.2	841.1
10°	1031.5	1033.0	1035.0	1042.8	1044.3	1034.1	1004.2	959.2	905.6	879.4	851.3
12.5°	992.0	995.2	1003.1	1023.1	1044.3	1056.8	1041.4	995.8	931.4	899.7	864.0
15°	939.8	941.5	951.1	978.7	1016.7	1055.3	1069.8	1036.2	964.8	925.9	883.2
17.5°	917.5	918.3	925.0	943.3	978.7	1033.8	1085.8	1080.0	1005.7	958.4	906.7
20°	906.1	908.2	917.7	935.7	958.1	1006.3	1088.1	1127.3	1054.4	999.0	936.3
22.5°	938.4	937.5	941.0	950.0	968.8	997.9	1086.4	1176.1	1116.6	1051.3	974.9
25°	1013.5	1016.7	1010.6	1000.5	1006.6	1026.9	1095.7	1228.9	1194.3	1118.3	1025.4
27.5°	1120.6	1117.4	1108.4	1084.6	1072.2	1080.9	1126.4	1285.8	1291.0	1206.5	1092.2
30°	1227.4	1224.8	1216.1	1187.1	1161.5	1154.3	1186.2	1351.1	1406.2	1312.5	1174.0
32.5°	1338.3	1335.4	1327.3	1298.3	1267.5	1250.7	1271.3	1426.5	1542.1	1439.0	1270.4
35°	1475.0	1469.5	1452.4	1412.0	1381.8	1368.8	1378.4	1521.4	1698.8	1588.8	1387.4
37.5°	1603.6	1612.0	1594.6	1538.9	1499.7	1495.0	1505.8	1637.3	1867.7	1756.3	1521.7
40°	1732.7	1734.2	1718.5	1673.0	1632.6	1625.1	1652.1	1777.7	2067.1	1956.5	1685.1
42.5°	1866.3	1869.2	1842.7	1800.7	1771.1	1772.5	1803.3	1942.3	2295.8	2192.5	1873.2
45°	2024.4	2028.8	1999.8	1944.6	1917.6	1971.9	1959.1	2126.9	2546.6	2460.7	2089.2
47.5°	2189.9	2196.5	2174.5	2122.8	2089.2	2163.8	2115.0	2331.5	2816.5	2748.3	2326.3
50°	2280.1	2289.7	2311.2	2307.4	2300.2	2287.7	2288.8	2550.9	3094.8	3047.8	2570.1
52.5°	2231.7	2231.4	2309.7	2404.9	2506.5	2514.1	2500.7	2782.3	3354.9	3340.7	2799.7
55°	2009.9	2025.0	2143.7	2328.0	2605.5	2778.8	2818.2	3047.2	3610.3	3626.9	3032.7
57.5°	1640.7	1653.2	1813.4	2070.3	2472.0	2936.1	3269.9	3432.4	3895.9	3973.1	3343.0
60°	1112.8	1127.9	1297.7	1606.2	2112.7	2848.4	3699.7	4119.7	4237.8	4413.4	3778.4
62.5°	653.9	667.6	806.0	1013.2	1487.5	2441.2	3888.4	5097.5	4780.9	5077.8	4442.4
65°	450.2	459.5	526.8	630.7	854.8	1644.2	3654.4	5772.6	5616.5	5900.9	5212.5
67.5°	362.2	361.1	414.5	485.3	550.3	847.8	2763.4	5696.3	6351.4	6470.1	5612.1
70°	298.4	297.2	333.5	392.1	439.7	477.4	1505.2	4807.0	6201.6	6249.8	5244.1
72.5°	249.6	250.8	274.0	317.5	360.8	359.6	661.5	3381.6	4878.7	5211.9	4180.4
75°	210.7	211.3	226.7	257.4	292.9	289.7	358.7	1832.0	2836.0	3067.9	2317.3
77.5°	179.4	179.9	189.8	206.9	232.2	231.0	261.8	791.5	1183.0	1168.5	792.7
80°	159.9	159.9	164.6	167.8	181.7	176.5	194.2	380.2	500.1	461.8	316.4
82.5°	125.4	126.0	154.4	153.2	143.1	136.4	136.4	224.1	265.0	245.0	185.2
85°	70.5	70.2	99.6	120.2	126.0	96.1	95.2	125.4	144.3	127.1	89.7
87.5°	30.2	30.8	46.1	53.4	71.4	59.8	58.9	64.7	73.4	63.6	41.5
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°	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1
2.5°	819.4	811.8	795.3	774.7	756.1	743.9	732.9	716.9	717.8	706.7	698.6
5°	818.8	803.1	764.8	719.2	675.4	643.8	620.0	598.5	593.3	583.1	577.0
7.5°	819.4	793.8	729.4	656.5	602.3	562.2	541.9	530.6	527.9	524.5	524.8
10°	821.4	785.4	690.5	597.9	541.0	514.6	509.7	513.1	517.2	518.4	518.7
12.5°	826.0	777.8	647.8	545.7	502.7	494.6	503.0	514.9	522.7	526.5	526.2
15°	836.5	772.0	606.9	504.7	481.5	485.9	501.5	518.4	529.7	534.9	535.2
17.5°	847.8	763.6	564.8	473.4	465.8	476.9	496.3	516.0	530.0	535.8	536.9
20°	862.6	753.2	520.7	449.9	451.0	463.5	481.8	501.5	516.9	521.9	524.2
22.5°	882.0	741.9	482.1	430.7	434.2	443.8	458.0	475.1	488.5	490.8	492.8
25°	908.2	729.7	451.3	413.3	414.8	420.3	429.8	440.0	449.3	446.7	448.7
27.5°	943.3	719.2	428.4	397.3	394.7	395.9	400.8	404.0	409.0	401.7	402.6
30°	984.5	707.9	410.7	383.4	376.2	374.1	375.3	377.0	380.8	370.9	369.5
32.5°	1032.4	694.3	394.1	371.2	361.1	357.0	357.6	362.2	376.7	370.6	367.4
35°	1088.1	678.9	376.7	357.9	350.9	345.1	344.5	359.0	402.3	398.5	395.6
37.5°	1153.4	663.5	359.3	342.8	343.4	337.0	334.9	351.5	407.2	392.4	390.4
40°	1236.4	655.4	344.5	326.8	334.1	333.2	329.1	337.6	374.7	347.7	344.2
42.5°	1339.2	656.5	333.5	309.7	323.0	332.3	325.9	326.2	339.6	319.3	316.1
45°	1466.0	670.2	325.7	296.0	310.6	331.5	324.8	320.1	321.3	310.6	308.8
47.5°	1614.0	698.3	320.1	284.7	298.7	328.3	324.5	318.4	315.8	310.0	308.5
50°	1778.6	739.2	316.1	274.0	287.9	323.0	324.8	316.7	313.8	311.4	310.6
52.5°	1940.3	786.0	310.0	264.7	279.5	316.7	325.7	314.9	311.7	310.0	309.1
55°	2120.5	844.3	300.7	256.9	272.5	308.5	325.7	312.3	308.8	309.1	308.8
57.5°	2364.0	938.6	289.7	250.2	264.1	298.7	320.1	309.4	305.0	305.3	305.6
60°	2744.5	1105.0	276.3	243.5	253.7	287.0	312.6	303.0	298.7	299.8	300.1
62.5°	3304.1	1349.0	258.9	233.6	242.6	274.6	302.1	294.9	290.5	293.4	293.4
65°	3885.8	1564.4	237.4	221.2	231.0	260.9	289.1	284.7	280.4	287.0	286.8
67.5°	4042.2	1516.2	215.9	207.5	219.4	245.8	273.4	271.1	268.8	280.4	279.8
70°	3590.9	1217.3	196.2	193.6	206.7	229.6	256.6	256.6	255.1	263.8	261.8
72.5°	2735.8	863.2	177.3	178.8	192.1	211.9	238.3	240.3	238.0	242.4	240.6
75°	1464.6	494.0	158.5	162.5	174.1	193.9	218.0	220.0	218.6	218.3	219.1
77.5°	486.7	241.5	138.7	145.1	155.3	175.3	196.8	200.0	196.5	195.9	195.6
80°	216.8	151.8	117.0	125.4	134.4	154.1	174.4	177.0	173.3	178.5	171.8
82.5°	139.3	99.8	93.7	103.0	111.7	132.9	152.1	152.7	149.2	173.3	147.7
85°	67.6	61.8	70.5	78.9	86.5	104.5	126.0	126.3	117.5	107.1	103.3
87.5°	33.7	36.0	47.0	54.6	58.3	71.7	91.7	90.0	86.2	78.4	72.3
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)