

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: P298855

Luminaire Tested: **GLNA-AF-01-LED-E1-T2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298855
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-T2-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5295.5 lumens
Efficiency: N/A
Efficacy: 89.8 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

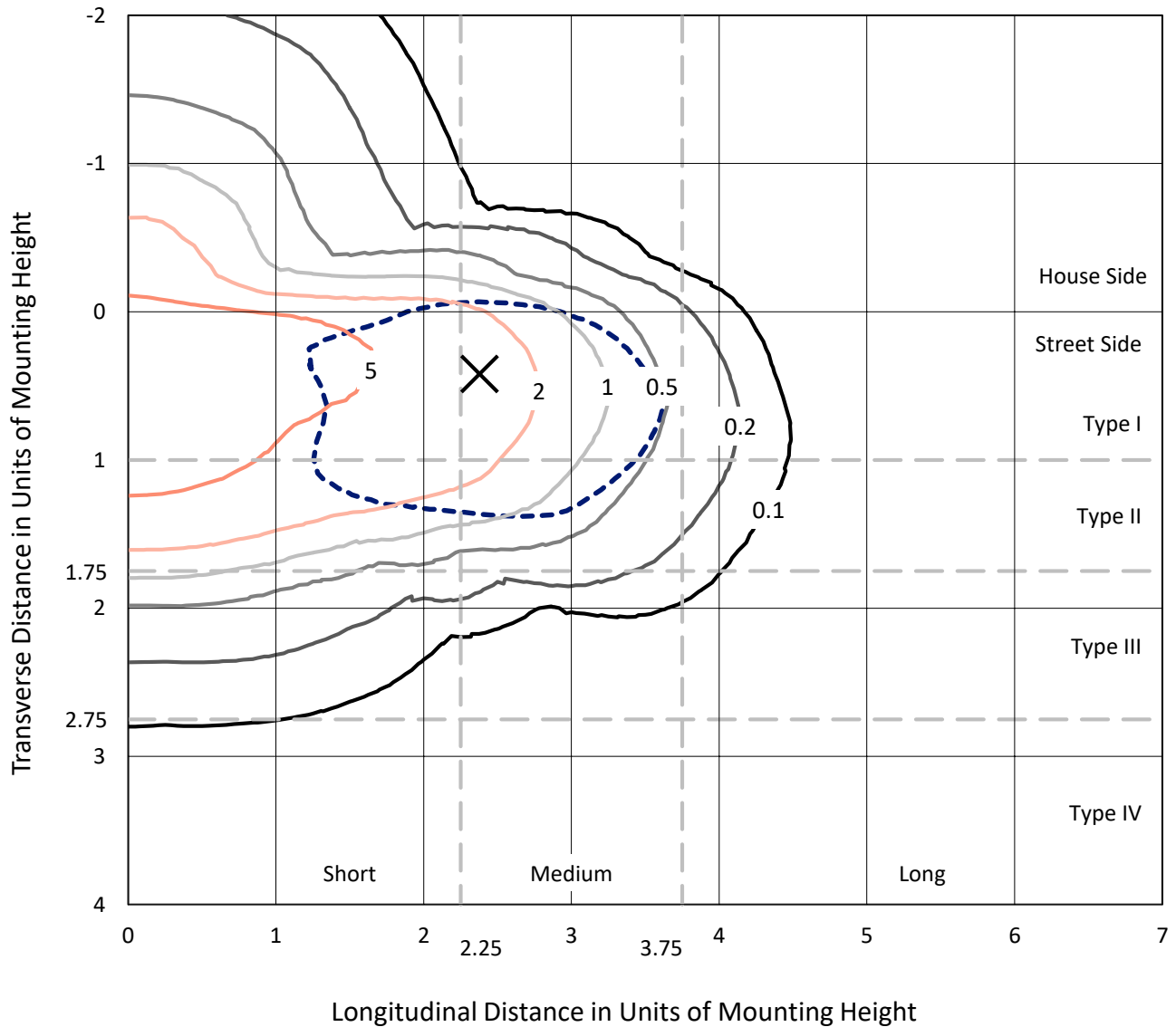
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

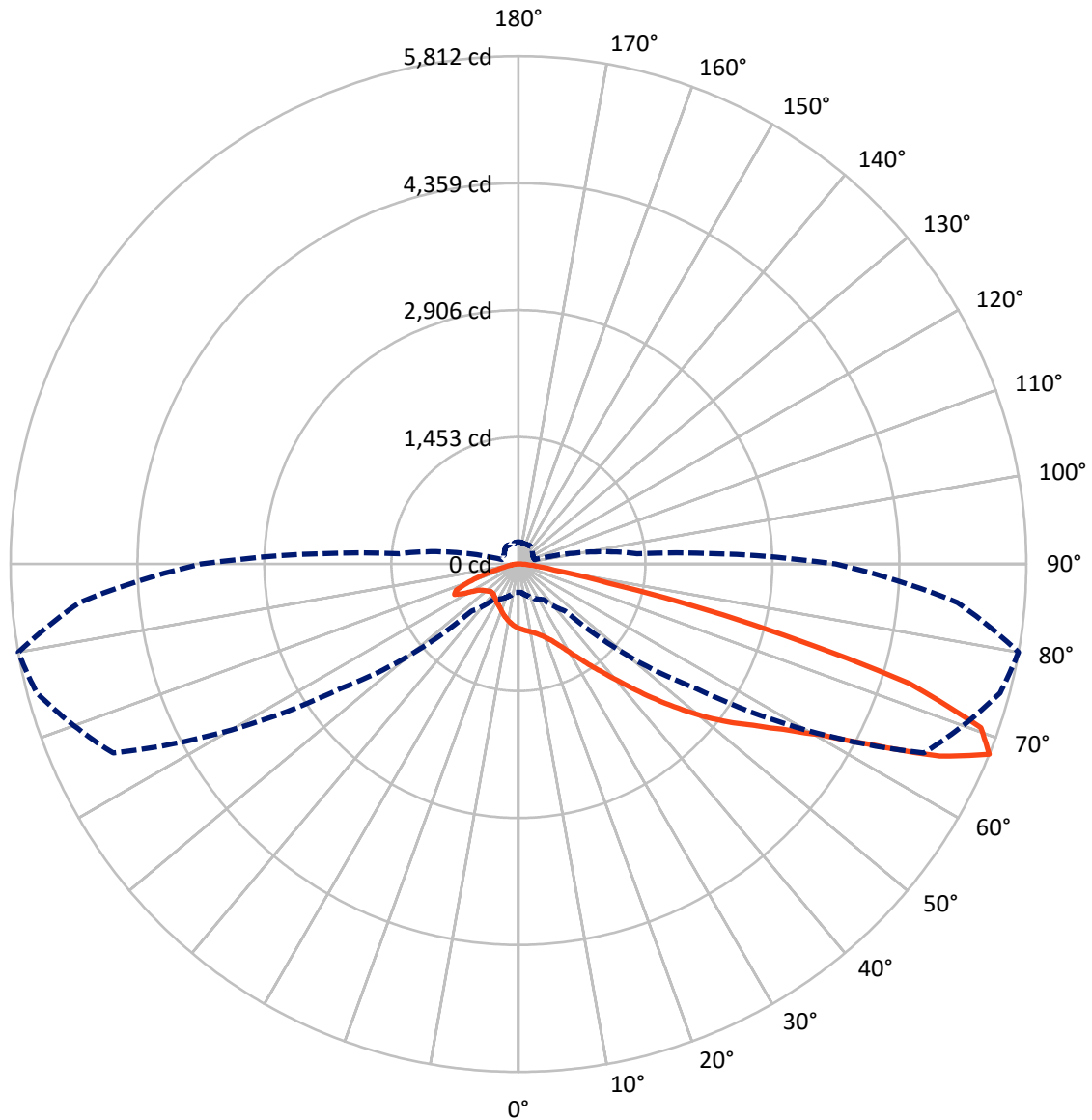
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - Full Cutoff

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CATALOG NUMBER: GLNA-AF-01-LED-E1-T2-7027

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLNA-AF-01-LED-E1-T2-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	975.2	0.0	975.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	4320.3	0.0	4320.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	5295.5	0.0	5295.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	1.3
10°-20°	195.5	3.7
20°-30°	323.6	6.1
30°-40°	529.3	10.0
40°-50°	854.6	16.1
50°-60°	1233.9	23.3
60°-70°	1361.6	25.7
70°-80°	627.6	11.9
80°-90°	101.5	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°	5295.5	100.0
0°-180°	5295.5	100.0



REPORT NUMBER: P298855

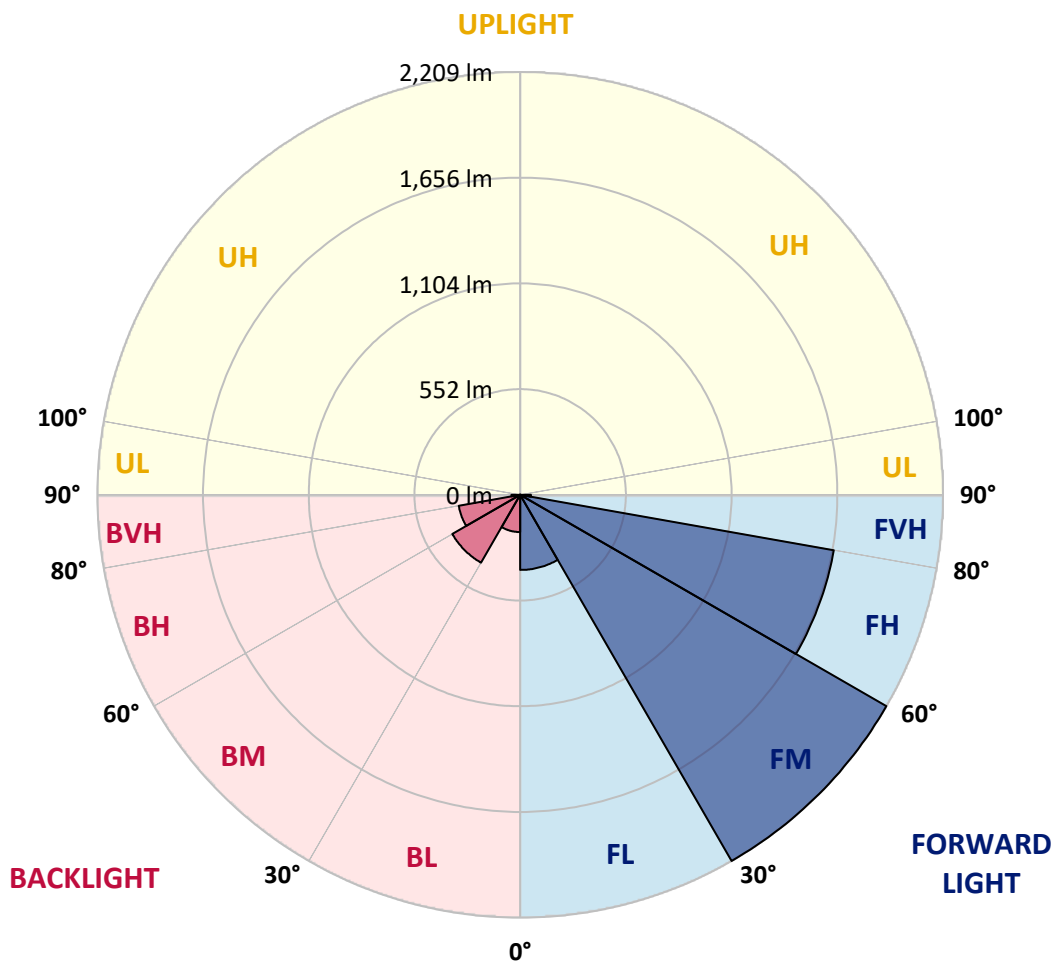
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	392.4	7.4			
FM	(30°-60°)	2208.6	41.7			
FH	(60°-80°)	1663.5	31.4			G1/1800
FVH	(80°-90°)	55.8	1.1			G1/100
BL	(0°-30°)	194.6	3.7	B1/500		
BM	(30°-60°)	409.2	7.7	B1/1000		
BH	(60°-80°)	325.8	6.2	B1/500		G1/500
BVH	(80°-90°)	45.7	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





REPORT NUMBER: P298855

CATALOG NUMBER: GLNA-AF-01-LED-E1-T2-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7
2.5°	804.8	800.1	800.9	799.6	795.7	788.9	781.6	768.3	754.5	747.2	741.4
5°	872.1	870.8	868.9	864.8	854.8	840.8	823.3	799.8	774.6	761.3	748.5
7.5°	922.4	921.6	919.2	916.6	907.0	890.0	863.7	830.3	793.6	775.3	755.5
10°	926.5	927.8	929.7	936.7	938.0	928.9	902.0	861.6	813.4	789.9	764.6
12.5°	891.1	894.0	901.0	919.0	938.0	949.2	935.4	894.5	836.6	808.2	776.1
15°	844.2	845.7	854.3	879.1	913.2	947.9	961.0	930.7	866.6	831.6	793.3
17.5°	824.1	824.9	830.9	847.3	879.1	928.6	975.3	970.1	903.3	860.8	814.4
20°	813.9	815.7	824.3	840.5	860.6	903.9	977.4	1012.6	947.1	897.3	841.0
22.5°	842.9	842.1	845.2	853.3	870.2	896.3	975.8	1056.4	1002.9	944.3	875.7
25°	910.4	913.2	907.8	898.6	904.1	922.4	984.2	1103.8	1072.8	1004.5	921.1
27.5°	1006.6	1003.7	995.6	974.2	963.0	970.9	1011.8	1154.9	1159.6	1083.7	981.0
30°	1102.5	1100.2	1092.3	1066.3	1043.3	1036.8	1065.5	1213.6	1263.1	1178.9	1054.5
32.5°	1202.1	1199.5	1192.2	1166.1	1138.5	1123.4	1141.9	1281.4	1385.1	1292.6	1141.1
35°	1324.9	1319.9	1304.6	1268.3	1241.2	1229.5	1238.1	1366.6	1525.9	1427.1	1246.2
37.5°	1440.4	1447.9	1432.3	1382.3	1347.1	1342.9	1352.5	1470.6	1677.6	1577.5	1366.9
40°	1556.4	1557.7	1543.6	1502.7	1466.5	1459.7	1483.9	1596.8	1856.7	1757.4	1513.6
42.5°	1676.3	1678.9	1655.2	1617.4	1590.8	1592.1	1619.8	1744.6	2062.2	1969.4	1682.6
45°	1818.4	1822.3	1796.2	1746.7	1722.5	1771.2	1759.7	1910.4	2287.4	2210.2	1876.5
47.5°	1967.0	1973.0	1953.2	1906.8	1876.5	1943.5	1899.7	2094.2	2529.9	2468.6	2089.5
50°	2048.1	2056.7	2076.0	2072.6	2066.1	2054.9	2055.9	2291.3	2779.9	2737.6	2308.5
52.5°	2004.6	2004.3	2074.7	2160.2	2251.4	2258.2	2246.2	2499.1	3013.5	3000.7	2514.7
55°	1805.4	1818.9	1925.6	2091.1	2340.3	2496.0	2531.4	2737.1	3242.9	3257.8	2724.1
57.5°	1473.8	1485.0	1628.9	1859.6	2220.4	2637.3	2937.1	3083.1	3499.4	3568.8	3002.8
60°	999.5	1013.1	1165.6	1442.7	1897.7	2558.5	3323.2	3700.4	3806.5	3964.3	3393.8
62.5°	587.4	599.6	724.0	910.1	1336.1	2192.8	3492.6	4578.7	4294.3	4561.0	3990.3
65°	404.4	412.7	473.2	566.5	767.8	1476.9	3282.5	5185.1	5044.9	5300.4	4682.0
67.5°	325.4	324.3	372.3	435.9	494.3	761.5	2482.2	5116.6	5705.0	5811.6	5041.0
70°	268.0	267.0	299.5	352.2	395.0	428.9	1352.0	4317.8	5570.5	5613.7	4710.4
72.5°	224.2	225.2	246.1	285.2	324.1	323.0	594.1	3037.5	4382.2	4681.5	3754.9
75°	189.3	189.8	203.6	231.2	263.1	260.2	322.2	1645.6	2547.3	2755.6	2081.5
77.5°	161.1	161.6	170.5	185.9	208.6	207.5	235.2	710.9	1062.6	1049.6	712.0
80°	143.6	143.6	147.8	150.7	163.2	158.5	174.4	341.5	449.2	414.8	284.2
82.5°	112.6	113.1	138.7	137.7	128.5	122.5	122.5	201.3	238.0	220.0	166.3
85°	63.4	63.1	89.4	107.9	113.1	86.3	85.5	112.6	129.6	114.2	80.6
87.5°	27.1	27.6	41.5	48.0	64.1	53.7	52.9	58.1	66.0	57.1	37.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P298855

CATALOG NUMBER: GLNA-AF-01-LED-E1-T2-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7
2.5°	736.0	729.2	714.3	695.8	679.1	668.2	658.3	643.9	644.7	634.8	627.5
5°	735.4	721.4	687.0	646.0	606.7	578.2	556.9	537.6	532.9	523.8	518.3
7.5°	736.0	713.0	655.1	589.7	541.0	505.0	486.7	476.6	474.2	471.1	471.4
10°	737.8	705.5	620.2	537.0	486.0	462.2	457.8	460.9	464.6	465.6	465.9
12.5°	742.0	698.7	581.9	490.1	451.5	444.2	451.8	462.5	469.5	472.9	472.7
15°	751.3	693.5	545.1	453.4	432.5	436.4	450.5	465.6	475.8	480.5	480.7
17.5°	761.5	685.9	507.3	425.2	418.4	428.3	445.8	463.5	476.0	481.3	482.3
20°	774.8	676.5	467.7	404.1	405.1	416.3	432.8	450.5	464.3	468.7	470.8
22.5°	792.3	666.4	433.0	386.9	390.0	398.6	411.4	426.8	438.8	440.8	442.7
25°	815.7	655.4	405.4	371.2	372.5	377.5	386.1	395.2	403.6	401.2	403.0
27.5°	847.3	646.0	384.8	356.9	354.6	355.6	360.0	362.9	367.3	360.8	361.6
30°	884.3	635.9	368.9	344.4	337.9	336.0	337.1	338.7	342.0	333.2	331.9
32.5°	927.3	623.6	354.0	333.4	324.3	320.7	321.2	325.4	338.4	332.9	330.1
35°	977.4	609.8	338.4	321.4	315.2	310.0	309.5	322.5	361.3	357.9	355.3
37.5°	1036.0	596.0	322.8	307.9	308.4	302.7	300.9	315.7	365.8	352.5	350.6
40°	1110.6	588.7	309.5	293.6	300.1	299.3	295.6	303.2	336.6	312.3	309.2
42.5°	1202.9	589.7	299.5	278.2	290.2	298.5	292.8	293.0	305.0	286.8	283.9
45°	1316.8	602.0	292.5	265.9	279.0	297.7	291.7	287.6	288.6	279.0	277.4
47.5°	1449.8	627.3	287.6	255.8	268.3	294.9	291.5	286.0	283.6	278.4	277.1
50°	1597.6	664.0	283.9	246.1	258.6	290.2	291.7	284.4	281.8	279.7	279.0
52.5°	1742.8	706.0	278.4	237.8	251.1	284.4	292.5	282.9	280.0	278.4	277.6
55°	1904.7	758.4	270.1	230.7	244.8	277.1	292.5	280.5	277.4	277.6	277.4
57.5°	2123.4	843.1	260.2	224.7	237.2	268.3	287.6	277.9	274.0	274.3	274.5
60°	2465.2	992.5	248.2	218.7	227.9	257.8	280.8	272.2	268.3	269.3	269.6
62.5°	2967.9	1211.8	232.5	209.9	217.9	246.6	271.4	264.9	261.0	263.6	263.6
65°	3490.3	1405.2	213.3	198.7	207.5	234.4	259.7	255.8	251.8	257.8	257.6
67.5°	3630.8	1361.9	194.0	186.4	197.1	220.8	245.6	243.5	241.4	251.8	251.3
70°	3225.4	1093.4	176.2	173.9	185.6	206.2	230.5	230.5	229.2	237.0	235.2
72.5°	2457.4	775.3	159.3	160.6	172.6	190.3	214.0	215.9	213.8	217.7	216.1
75°	1315.5	443.7	142.3	146.0	156.4	174.2	195.8	197.6	196.3	196.0	196.8
77.5°	437.2	216.9	124.6	130.4	139.5	157.5	176.8	179.6	176.5	176.0	175.7
80°	194.7	136.3	105.1	112.6	120.7	138.4	156.7	159.0	155.6	160.3	154.3
82.5°	125.1	89.7	84.2	92.5	100.4	119.4	136.6	137.1	134.0	155.6	132.7
85°	60.7	55.5	63.4	70.9	77.7	93.9	113.1	113.4	105.6	96.2	92.8
87.5°	30.2	32.3	42.2	49.0	52.4	64.4	82.4	80.8	77.4	70.4	64.9
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)