

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: P299885

Luminaire Tested: **GLNA-AF-02-LED-E1-SL3-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299885  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-02-LED-E1-SL3-7050-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Medium OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9805.5 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

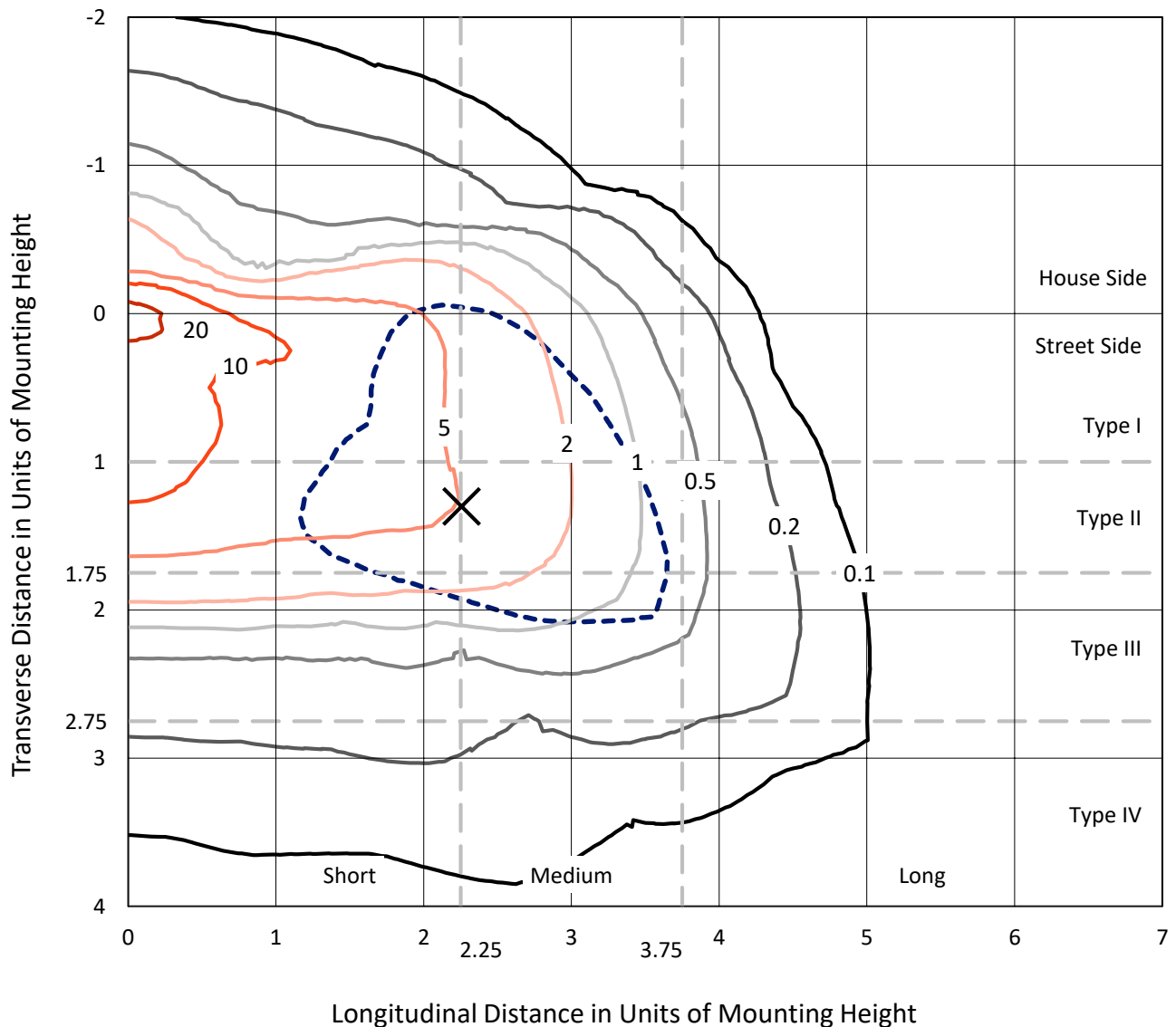
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P299885  
 CATALOG NUMBER: GLNA-AF-02-LED-E1-SL3-7050-800

### Iso-Footcandle Lines of Horizontal Illumination

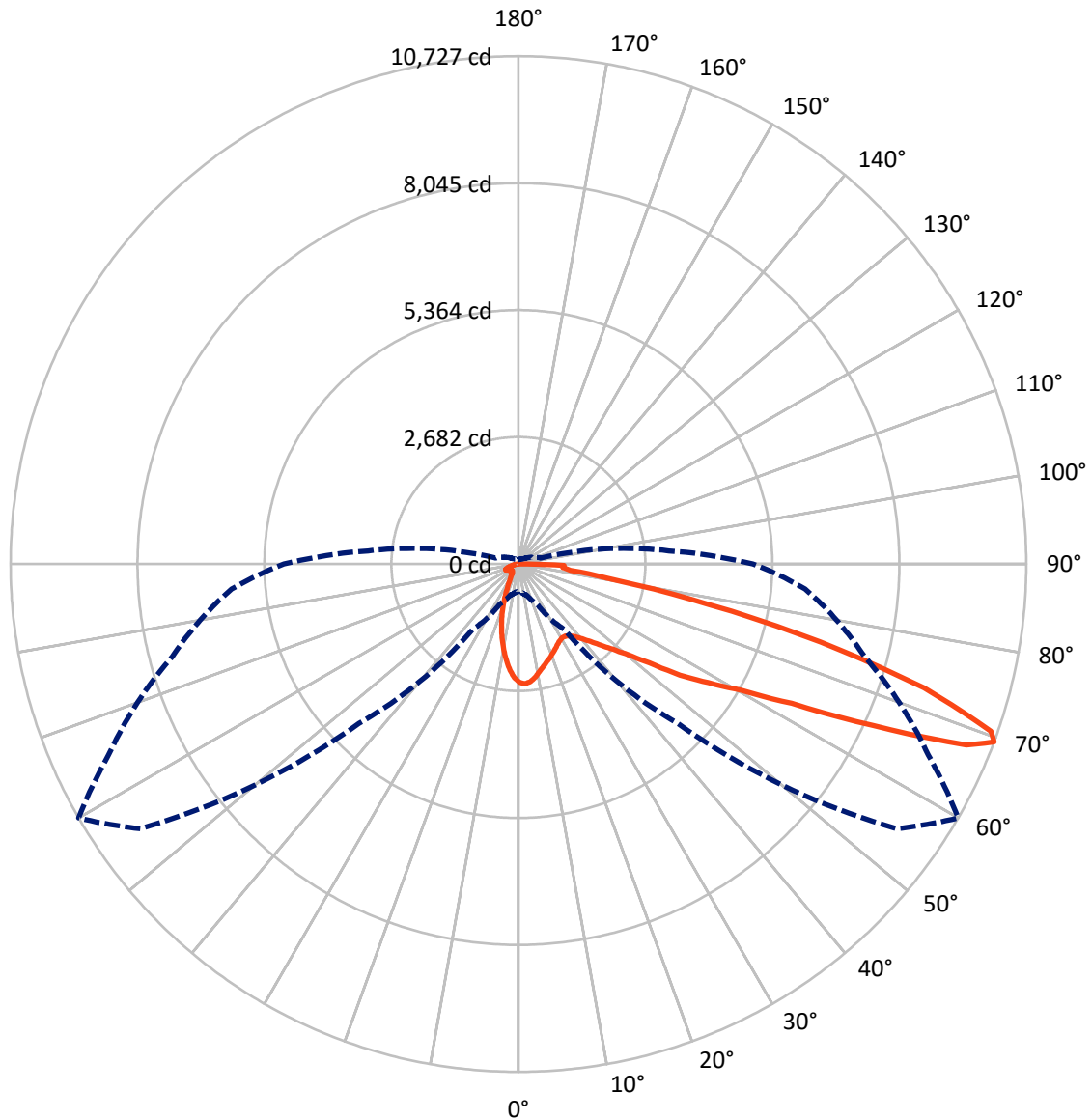
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P299885  
CATALOG NUMBER: GLNA-AF-02-LED-E1-SL3-7050-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P299885

CATALOG NUMBER: GLNA-AF-02-LED-E1-SL3-7050-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1395.0	0.0	1395.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	8410.4	0.0	8410.4
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	9805.5	0.0	9805.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.3	2.2
10°-20°	450.1	4.6
20°-30°	573.5	5.8
30°-40°	788.4	8.0
40°-50°	1279.3	13.0
50°-60°	2051.7	20.9
60°-70°	2730.7	27.8
70°-80°	1474.4	15.0
80°-90°	246.0	2.5
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°	9805.5	100.0
0°-180°	9805.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P299885

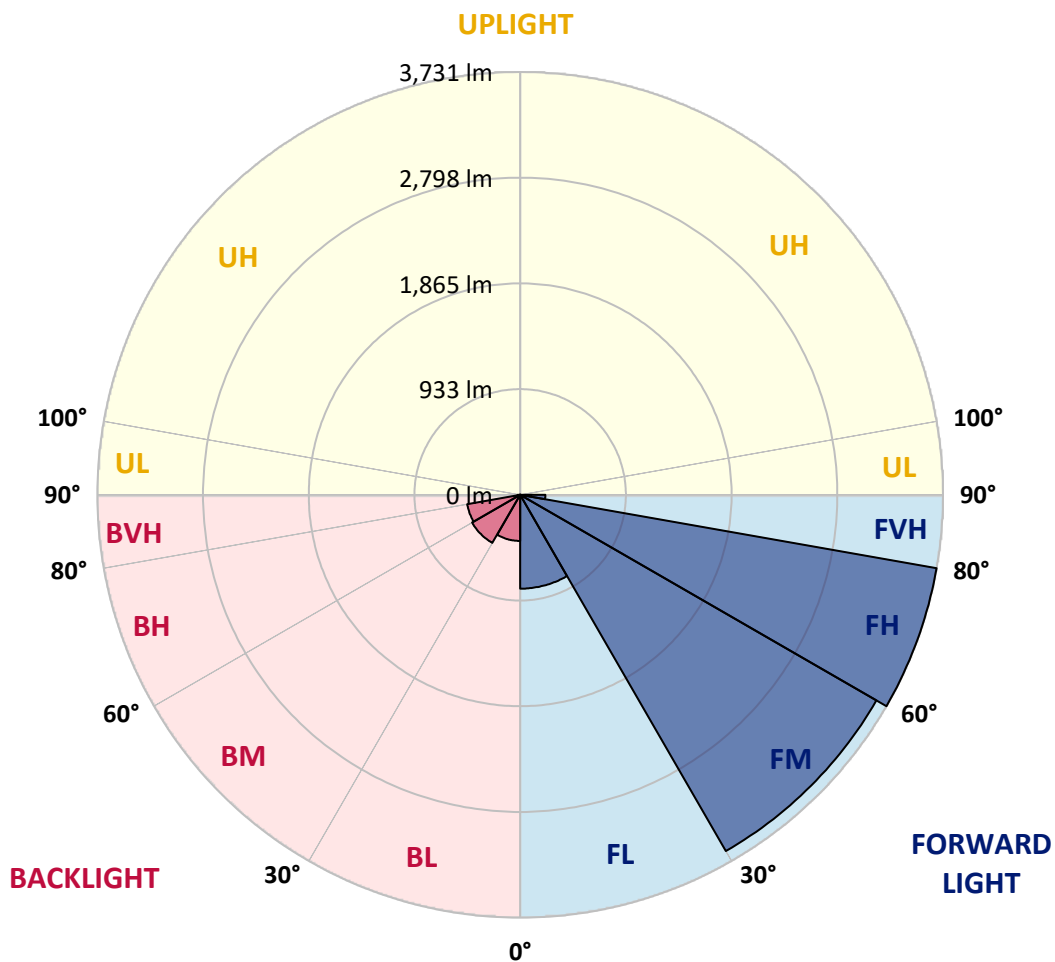
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	827.9	8.4			
FM (30°-60°)	3629.4	37.0			
FH (60°-80°)	3730.8	38.0			G2/5000
FVH (80°-90°)	222.3	2.3			G2/225
BL (0°-30°)	407.0	4.2	B1/500		
BM (30°-60°)	490.1	5.0	B1/1000		
BH (60°-80°)	474.3	4.8	B1/500		G1/500
BVH (80°-90°)	23.7	0.2			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 III Medium





REPORT NUMBER: P299885

CATALOG NUMBER: GLNA-AF-02-LED-E1-SL3-7050-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2498.6	2498.6	2498.6	2498.6	2498.6	2498.6	2498.6	2498.6	2498.6	2498.6	2498.6
2.5°	2549.7	2555.4	2553.0	2551.6	2555.9	2549.3	2535.5	2531.3	2524.6	2509.0	2482.5
5°	2454.1	2471.1	2470.2	2482.9	2504.3	2509.9	2503.8	2504.7	2492.4	2473.0	2428.9
7.5°	2288.7	2295.8	2299.6	2327.6	2366.4	2397.7	2424.2	2432.7	2427.1	2410.5	2353.6
10°	2118.2	2123.9	2132.9	2165.6	2214.9	2258.0	2308.2	2337.1	2349.4	2346.5	2283.1
12.5°	1971.9	1977.5	1989.4	2026.3	2085.1	2138.1	2211.1	2247.1	2276.4	2294.0	2225.7
15°	1840.7	1853.0	1864.3	1907.0	1972.8	2042.4	2124.9	2170.3	2215.8	2255.1	2175.1
17.5°	1738.3	1750.7	1757.3	1796.1	1866.2	1951.5	2048.1	2101.6	2158.5	2222.9	2124.9
20°	1679.1	1684.8	1682.0	1703.8	1766.8	1857.2	1971.9	2033.9	2102.6	2192.6	2074.6
22.5°	1662.6	1663.0	1652.6	1650.2	1691.0	1767.2	1890.4	1965.7	2050.0	2172.7	2031.5
25°	1702.8	1701.4	1673.0	1649.8	1654.0	1698.6	1811.8	1899.4	2006.0	2168.4	1998.4
27.5°	1792.3	1796.6	1754.5	1710.9	1667.8	1666.4	1752.1	1844.4	1970.0	2187.9	1984.2
30°	1917.9	1925.0	1880.0	1824.6	1743.6	1676.8	1728.9	1811.8	1947.7	2228.1	1981.8
32.5°	2055.2	2062.8	2028.7	1970.4	1864.3	1741.2	1745.0	1814.6	1946.8	2284.5	1997.9
35°	2201.6	2210.1	2192.6	2143.3	2025.4	1860.1	1806.6	1860.6	1977.5	2370.7	2041.0
37.5°	2365.0	2378.3	2383.0	2336.1	2210.1	2016.9	1907.4	1947.7	2047.2	2490.5	2120.1
40°	2600.4	2618.9	2617.5	2550.2	2421.8	2228.6	2063.3	2073.7	2155.6	2650.6	2246.6
42.5°	3051.3	3055.1	2937.2	2790.8	2654.9	2451.2	2247.1	2238.5	2305.3	2853.4	2432.7
45°	3625.0	3609.3	3346.9	3064.1	2898.4	2707.0	2486.3	2444.6	2495.3	3100.6	2665.8
47.5°	4101.0	4065.0	3733.4	3343.1	3156.0	2985.0	2767.1	2694.2	2722.1	3381.0	2967.0
50°	4266.3	4239.3	3964.6	3575.2	3400.0	3324.2	3112.9	3009.7	3017.2	3715.4	3319.9
52.5°	4230.8	4227.0	4043.7	3728.2	3628.3	3680.4	3602.7	3463.0	3389.1	4086.8	3700.7
55°	4146.9	4155.0	4088.7	3906.3	3889.3	4024.2	4242.6	4139.4	3909.6	4461.4	4094.4
57.5°	3855.6	3876.5	4022.4	4130.4	4309.4	4510.2	4758.0	4728.6	4470.0	4866.4	4562.3
60°	3106.3	3154.6	3545.8	4086.8	4741.9	5369.9	5480.8	5412.6	5047.8	5369.0	5180.5
62.5°	2176.5	2226.7	2691.8	3538.3	4670.8	6340.9	6772.9	6478.8	5877.7	6109.3	5980.5
65°	1165.2	1189.4	1544.6	2455.0	3943.3	6541.3	8661.4	8213.8	7191.6	7022.1	6664.9
67.5°	642.8	656.0	792.0	1239.6	2525.6	5760.2	9864.5	10202.7	8833.8	7629.8	6540.4
69°	581.2	593.5	682.5	938.8	1690.0	4762.7	9747.1	10727.1	9553.8	7569.6	6080.0
70°	568.4	579.8	659.8	865.4	1367.9	3925.7	9353.4	10593.0	9725.3	7354.1	5678.3
72.5°	511.6	523.9	601.6	777.3	1169.0	1957.2	7409.1	8956.5	8829.6	6376.5	4307.0
75°	477.0	488.3	620.0	761.2	1119.3	1238.6	4884.4	6601.0	6490.6	4460.5	2322.4
77.5°	204.1	203.2	287.5	644.2	1135.8	1199.3	2624.6	4123.7	3762.3	1906.5	666.9
80°	136.4	134.0	136.4	189.5	1041.6	1205.9	1375.0	2093.1	1581.1	486.0	328.7
82.5°	117.5	115.6	119.8	115.6	366.1	1376.5	1169.0	1113.1	751.7	276.1	162.9
85°	79.1	75.8	103.3	103.7	172.9	1223.0	1316.8	940.2	608.2	163.9	80.5
87.5°	37.9	36.9	60.2	73.4	101.4	496.9	1477.4	963.4	613.4	83.8	38.4
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: P299885

CATALOG NUMBER: GLNA-AF-02-LED-E1-SL3-7050-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2498.6	2498.6	2498.6	2498.6	2498.6	2498.6	2498.6	2498.6	2498.6	2498.6	2498.6
2.5°	2474.4	2455.0	2436.1	2413.3	2389.6	2363.1	2349.8	2336.6	2333.3	2329.5	2316.2
5°	2406.2	2378.7	2331.4	2279.3	2224.3	2170.8	2130.1	2104.5	2085.1	2075.1	2057.6
7.5°	2318.1	2277.9	2195.0	2105.0	2012.6	1928.3	1855.3	1809.4	1765.8	1745.5	1722.2
10°	2234.3	2174.1	2045.3	1912.7	1780.0	1652.6	1532.8	1448.0	1372.7	1330.5	1300.7
12.5°	2162.3	2079.9	1901.3	1721.8	1539.9	1358.5	1178.9	1037.8	919.9	857.8	826.1
15°	2092.2	1992.7	1764.4	1536.6	1303.0	1056.3	820.4	660.3	562.7	523.9	510.6
17.5°	2028.7	1901.3	1627.0	1349.9	1058.6	760.2	551.3	463.2	425.8	413.0	408.8
20°	1960.0	1808.9	1484.5	1154.8	803.8	531.5	430.6	391.7	376.6	372.8	370.9
22.5°	1893.7	1718.0	1348.0	945.9	577.4	410.2	369.9	353.8	351.5	354.8	354.8
25°	1837.3	1636.5	1200.7	727.5	423.9	345.3	331.1	327.3	336.3	348.6	351.0
27.5°	1795.2	1569.7	1044.0	537.1	337.7	300.3	299.8	306.0	328.2	351.9	356.7
30°	1766.3	1506.3	876.3	387.5	283.3	264.3	271.9	285.1	317.8	351.5	360.5
32.5°	1751.6	1459.4	701.5	299.8	242.5	232.1	244.9	261.0	293.2	324.5	336.3
35°	1763.0	1424.8	536.7	250.1	214.1	206.0	219.3	234.9	253.9	267.1	276.1
37.5°	1805.6	1411.0	405.0	224.0	194.7	187.1	197.5	206.5	214.1	217.9	222.1
40°	1897.5	1425.7	324.5	210.8	183.8	174.3	178.6	181.9	186.6	190.4	192.3
42.5°	2033.0	1469.8	290.8	205.6	178.1	164.4	163.4	164.8	171.0	178.1	179.5
45°	2222.4	1547.5	288.5	208.9	175.3	156.3	152.0	153.9	163.4	174.3	176.2
47.5°	2464.5	1665.9	307.4	218.8	177.6	152.0	144.9	147.3	159.2	173.8	176.2
50°	2757.7	1831.2	339.1	233.5	188.0	153.0	142.6	144.0	156.3	172.4	174.8
52.5°	3103.9	2065.6	373.7	247.7	198.9	159.2	144.5	141.2	152.5	166.7	169.6
55°	3489.0	2366.4	409.2	260.5	204.6	166.7	148.3	137.4	145.4	157.3	159.6
57.5°	3961.7	2787.0	470.8	272.8	208.4	171.9	152.0	133.6	136.4	144.9	146.8
60°	4601.6	3382.0	579.3	293.2	216.9	173.8	151.6	130.3	127.4	132.2	133.1
62.5°	5368.5	4028.0	669.8	318.8	231.1	175.3	148.7	127.9	119.8	119.8	120.8
65°	5823.7	4200.9	619.6	340.1	243.0	173.8	145.4	125.5	114.2	108.9	109.4
67.5°	5437.7	3694.6	531.0	344.4	242.5	167.2	140.2	121.3	108.5	100.4	99.9
69°	4954.1	3187.8	491.2	333.0	231.1	158.7	133.6	116.5	104.2	95.7	95.2
70°	4564.2	2878.5	465.1	320.7	218.8	152.5	128.4	112.3	100.9	92.8	91.9
72.5°	3318.5	1886.1	397.4	275.7	180.5	127.9	110.8	98.5	90.0	85.3	84.3
75°	1658.3	899.5	322.6	223.6	138.3	102.3	90.9	82.4	78.2	77.2	76.7
77.5°	544.7	412.1	230.7	166.7	102.8	80.0	73.4	67.3	66.3	69.2	68.2
80°	299.4	239.7	146.4	110.4	70.1	58.7	57.8	54.5	55.9	60.6	59.7
82.5°	152.5	124.6	90.5	66.3	47.4	42.2	45.9	44.1	45.9	50.2	49.7
85°	75.3	68.2	57.3	40.3	31.3	27.0	32.7	34.1	35.1	38.4	38.4
87.5°	43.6	40.3	30.3	18.9	15.6	14.2	18.9	18.5	21.8	23.7	23.2
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)