

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: P299822

Luminaire Tested: **GLNA-AF-02-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299822
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-SL3-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11740.1 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

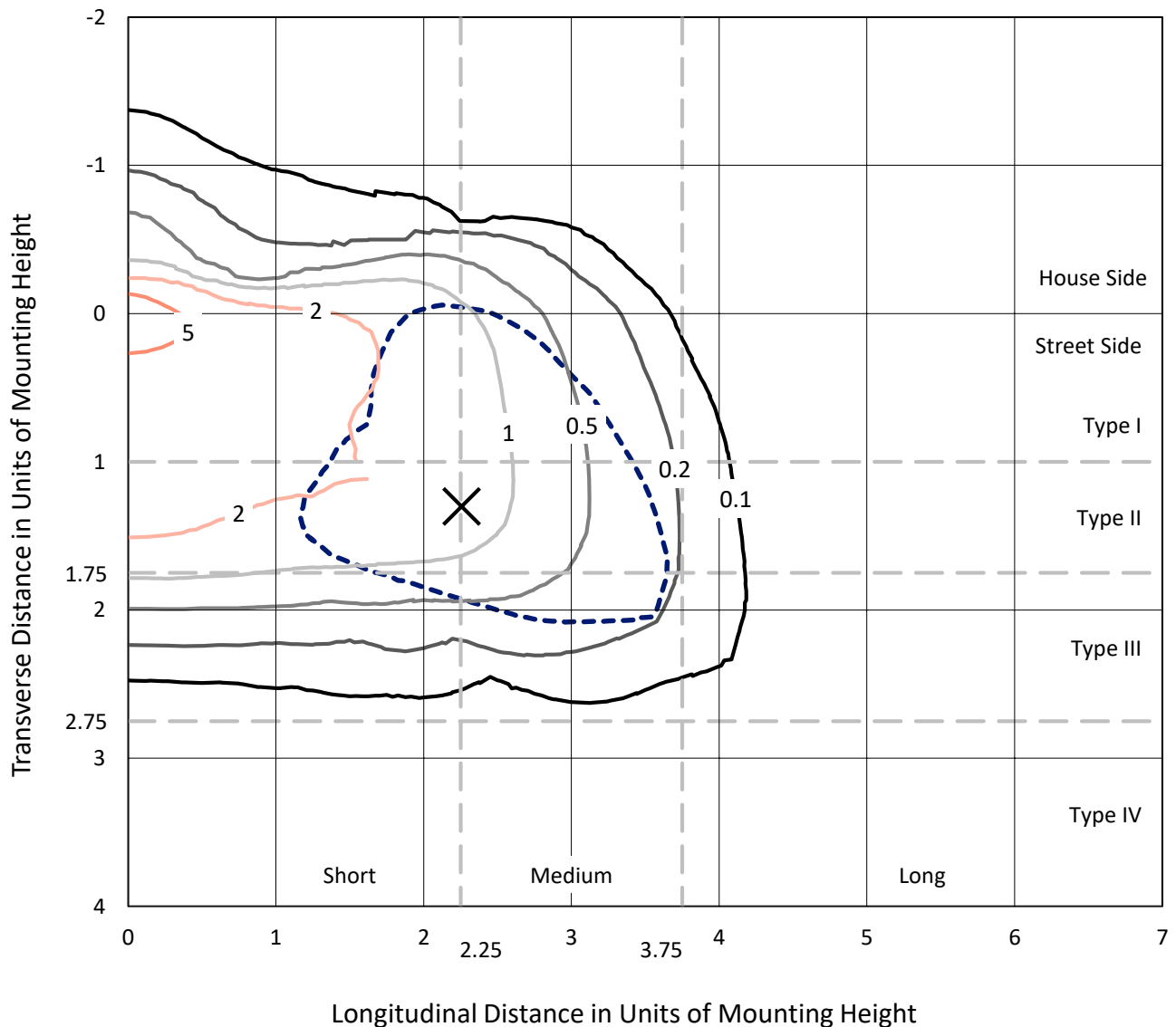
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

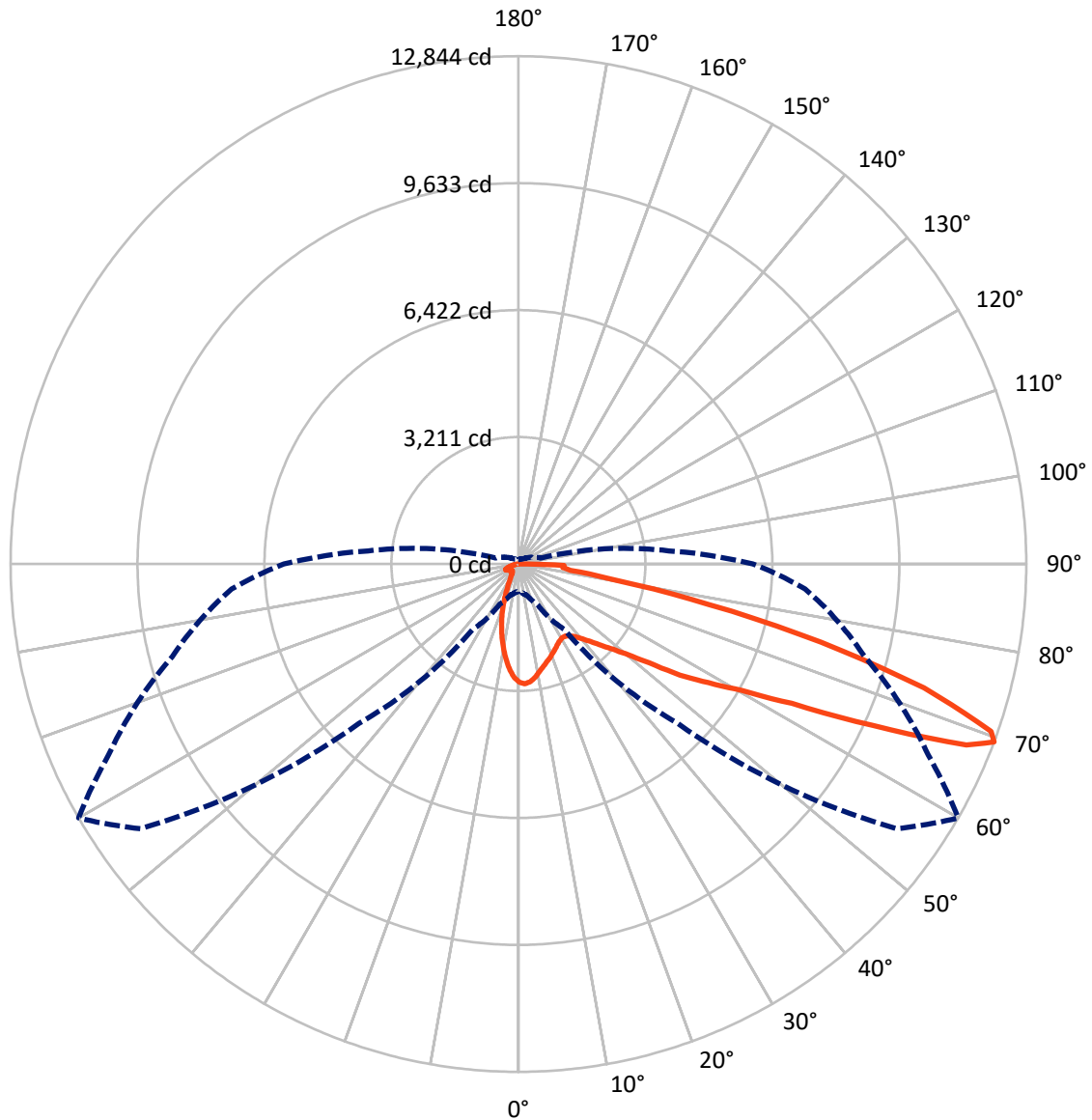
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.2	0.0	1670.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10069.9	0.0	10069.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	11740.1	0.0	11740.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.9	2.2
10°-20°	538.9	4.6
20°-30°	686.7	5.8
30°-40°	944.0	8.0
40°-50°	1531.7	13.0
50°-60°	2456.5	20.9
60°-70°	3269.5	27.8
70°-80°	1765.3	15.0
80°-90°	294.5	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°	11740.1	100.0
0°-180°	11740.1	100.0

Coefficient of Utilization



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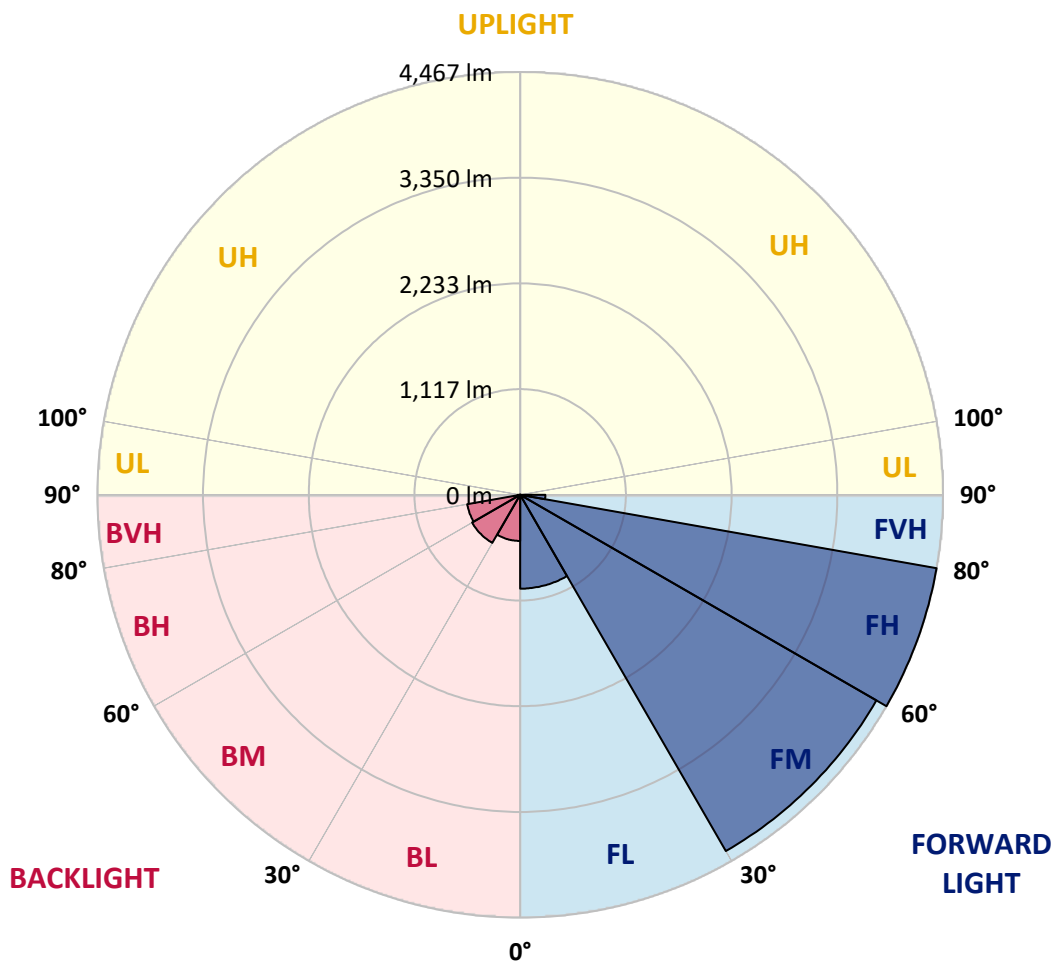
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	991.3	8.4			
FM	(30°-60°)	4345.5	37.0			
FH	(60°-80°)	4466.9	38.0			G2/5000
FVH	(80°-90°)	266.2	2.3			G3/500
BL	(0°-30°)	487.3	4.2	B1/500		
BM	(30°-60°)	586.8	5.0	B1/1000		
BH	(60°-80°)	567.8	4.8	B2/1000		G2/1000
BVH	(80°-90°)	28.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2991.6	2991.6	2991.6	2991.6	2991.6	2991.6	2991.6	2991.6	2991.6	2991.6	2991.6
2.5°	3052.8	3059.6	3056.8	3055.1	3060.2	3052.2	3035.8	3030.7	3022.7	3004.0	2972.3
5°	2938.2	2958.7	2957.5	2972.8	2998.4	3005.2	2997.8	2998.9	2984.2	2960.9	2908.2
7.5°	2740.3	2748.8	2753.4	2786.8	2833.3	2870.8	2902.5	2912.7	2905.9	2886.1	2818.0
10°	2536.2	2543.0	2553.7	2592.9	2651.9	2703.5	2763.6	2798.2	2812.9	2809.5	2733.5
12.5°	2360.9	2367.7	2381.9	2426.1	2496.5	2560.0	2647.3	2690.4	2725.6	2746.6	2664.9
15°	2203.8	2218.6	2232.2	2283.2	2362.1	2445.4	2544.1	2598.5	2653.0	2700.1	2604.2
17.5°	2081.3	2096.1	2104.0	2150.5	2234.5	2336.5	2452.2	2516.3	2584.4	2661.5	2544.1
20°	2010.4	2017.2	2013.8	2039.9	2115.4	2223.7	2360.9	2435.2	2517.4	2625.2	2484.0
22.5°	1990.6	1991.2	1978.7	1975.8	2024.6	2115.9	2263.4	2353.5	2454.5	2601.4	2432.4
25°	2038.8	2037.1	2003.1	1975.3	1980.4	2033.7	2169.2	2274.2	2401.8	2596.3	2392.7
27.5°	2146.0	2151.1	2100.6	2048.4	1996.8	1995.1	2097.8	2208.4	2358.7	2619.5	2375.7
30°	2296.3	2304.8	2250.9	2184.5	2087.6	2007.6	2070.0	2169.2	2332.0	2667.7	2372.8
32.5°	2460.7	2469.8	2429.0	2359.2	2232.2	2084.7	2089.3	2172.6	2330.9	2735.2	2392.1
35°	2636.0	2646.2	2625.2	2566.2	2425.0	2227.1	2163.0	2227.6	2367.7	2838.4	2443.7
37.5°	2831.6	2847.5	2853.2	2797.0	2646.2	2414.8	2283.8	2332.0	2451.1	2981.9	2538.4
40°	3113.5	3135.6	3133.9	3053.4	2899.7	2668.3	2470.4	2482.9	2581.0	3173.6	2689.9
42.5°	3653.4	3657.9	3516.7	3341.5	3178.7	2934.8	2690.4	2680.2	2760.2	3416.3	2912.7
45°	4340.2	4321.5	4007.3	3668.7	3470.2	3241.1	2976.8	2926.9	2987.6	3712.4	3191.8
47.5°	4910.1	4867.0	4470.0	4002.7	3778.7	3574.0	3313.1	3225.8	3259.2	4048.1	3552.4
50°	5108.0	5075.7	4746.8	4280.6	4070.8	3980.0	3727.1	3603.5	3612.6	4448.5	3974.9
52.5°	5065.5	5061.0	4841.5	4463.8	4344.1	4406.5	4313.5	4146.2	4057.7	4893.1	4430.9
55°	4965.1	4974.8	4895.4	4677.0	4656.6	4818.3	5079.7	4956.1	4681.0	5341.7	4902.2
57.5°	4616.4	4641.3	4816.0	4945.3	5159.7	5400.1	5696.7	5661.6	5351.9	5826.6	5462.5
60°	3719.2	3777.0	4245.5	4893.1	5677.4	6429.4	6562.1	6480.5	6043.8	6428.3	6202.6
62.5°	2605.9	2666.0	3222.9	4236.4	5592.4	7592.0	8109.2	7757.1	7037.4	7314.7	7160.5
65°	1395.1	1424.0	1849.4	2939.4	4721.3	7831.9	10370.4	9834.4	8610.6	8407.6	7979.9
67.5°	769.6	785.5	948.2	1484.2	3023.9	6896.7	11810.8	12215.8	10576.8	9135.2	7830.8
69°	695.9	710.6	817.2	1124.0	2023.5	5702.4	11670.2	12843.6	11438.8	9063.1	7279.6
70°	680.5	694.2	790.0	1036.1	1637.8	4700.3	11198.9	12683.1	11644.1	8805.1	6798.6
72.5°	612.5	627.2	720.2	930.6	1399.7	2343.3	8870.9	10723.7	10571.7	7634.6	5156.8
75°	571.1	584.7	742.4	911.4	1340.1	1483.0	5848.1	7903.4	7771.2	5340.6	2780.6
77.5°	244.4	243.3	344.2	771.3	1360.0	1435.9	3142.4	4937.3	4504.6	2282.7	798.5
80°	163.3	160.5	163.3	226.8	1247.1	1443.9	1646.3	2506.1	1893.0	581.9	393.6
82.5°	140.6	138.4	143.5	138.4	438.4	1648.1	1399.7	1332.7	900.0	330.6	195.1
85°	94.7	90.7	123.6	124.2	207.0	1464.3	1576.6	1125.7	728.2	196.2	96.4
87.5°	45.4	44.2	72.0	87.9	121.4	594.9	1768.8	1153.5	734.4	100.4	45.9
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°	2991.6	2991.6	2991.6	2991.6	2991.6	2991.6	2991.6	2991.6	2991.6	2991.6	2991.6
2.5°	2962.6	2939.4	2916.7	2889.5	2861.1	2829.4	2813.5	2797.6	2793.6	2789.1	2773.2
5°	2881.0	2848.1	2791.4	2729.0	2663.2	2599.1	2550.3	2519.7	2496.5	2484.6	2463.6
7.5°	2775.5	2727.3	2628.0	2520.3	2409.7	2308.7	2221.4	2166.4	2114.2	2089.8	2062.0
10°	2675.1	2603.1	2448.8	2290.0	2131.2	1978.7	1835.2	1733.7	1643.5	1593.0	1557.3
12.5°	2588.9	2490.2	2276.4	2061.5	1843.7	1626.5	1411.6	1242.6	1101.3	1027.1	989.1
15°	2505.0	2385.9	2112.5	1839.7	1560.1	1264.7	982.3	790.6	673.7	627.2	611.4
17.5°	2429.0	2276.4	1948.1	1616.3	1267.5	910.2	660.1	554.6	509.8	494.5	489.4
20°	2346.7	2165.8	1777.4	1382.6	962.4	636.3	515.5	469.0	450.9	446.3	444.1
22.5°	2267.3	2056.9	1614.0	1132.5	691.3	491.1	442.9	423.6	420.8	424.8	424.8
25°	2199.9	1959.4	1437.6	871.1	507.6	413.4	396.4	391.9	402.7	417.4	420.2
27.5°	2149.4	1879.4	1249.9	643.1	404.4	359.6	359.0	366.4	393.0	421.4	427.0
30°	2114.8	1803.4	1049.2	463.9	339.1	316.5	325.5	341.4	380.5	420.8	431.6
32.5°	2097.2	1747.3	839.9	359.0	290.4	277.9	293.2	312.5	351.0	388.5	402.7
35°	2110.8	1705.9	642.5	299.4	256.3	246.7	262.6	281.3	304.0	319.9	330.6
37.5°	2161.9	1689.5	484.9	268.2	233.1	224.0	236.5	247.3	256.3	260.9	266.0
40°	2271.9	1707.0	388.5	252.4	220.0	208.7	213.8	217.8	223.4	228.0	230.3
42.5°	2434.1	1759.8	348.2	246.1	213.2	196.8	195.7	197.4	204.7	213.2	214.9
45°	2660.9	1852.8	345.4	250.1	209.8	187.1	182.0	184.3	195.7	208.7	211.0
47.5°	2950.7	1994.6	368.1	262.0	212.7	182.0	173.5	176.4	190.6	208.1	211.0
50°	3301.8	2192.5	406.1	279.6	225.1	183.2	170.7	172.4	187.1	206.4	209.3
52.5°	3716.3	2473.2	447.5	296.6	238.2	190.6	173.0	169.0	182.6	199.6	203.0
55°	4177.4	2833.3	490.0	311.9	245.0	199.6	177.5	164.5	174.1	188.3	191.1
57.5°	4743.4	3336.9	563.7	326.7	249.5	205.9	182.0	159.9	163.3	173.5	175.8
60°	5509.6	4049.2	693.6	351.0	259.7	208.1	181.5	156.0	152.6	158.2	159.4
62.5°	6427.7	4822.8	801.9	381.7	276.8	209.8	178.1	153.1	143.5	143.5	144.6
65°	6972.7	5029.8	741.8	407.2	290.9	208.1	174.1	150.3	136.7	130.4	131.0
67.5°	6510.5	4423.5	635.7	412.3	290.4	200.2	167.9	145.2	129.9	120.2	119.7
69°	5931.5	3816.7	588.1	398.7	276.8	190.0	159.9	139.5	124.8	114.6	114.0
70°	5464.8	3446.4	556.9	383.9	262.0	182.6	153.7	134.4	120.8	111.2	110.0
72.5°	3973.2	2258.3	475.8	330.1	216.1	153.1	132.7	118.0	107.8	102.1	100.9
75°	1985.5	1077.0	386.2	267.7	165.6	122.5	108.9	98.7	93.6	92.4	91.9
77.5°	652.2	493.4	276.2	199.6	123.1	95.8	87.9	80.5	79.4	82.8	81.7
80°	358.4	287.0	175.2	132.1	83.9	70.3	69.2	65.2	66.9	72.6	71.5
82.5°	182.6	149.2	108.3	79.4	56.7	50.5	55.0	52.7	55.0	60.1	59.5
85°	90.2	81.7	68.6	48.2	37.4	32.3	39.1	40.8	42.0	45.9	45.9
87.5°	52.2	48.2	36.3	22.7	18.7	17.0	22.7	22.1	26.1	28.4	27.8
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)