

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: P299948

Luminaire Tested: **GLNA-AF-03-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299948
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-03-LED-E1-SL3-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11540.4 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

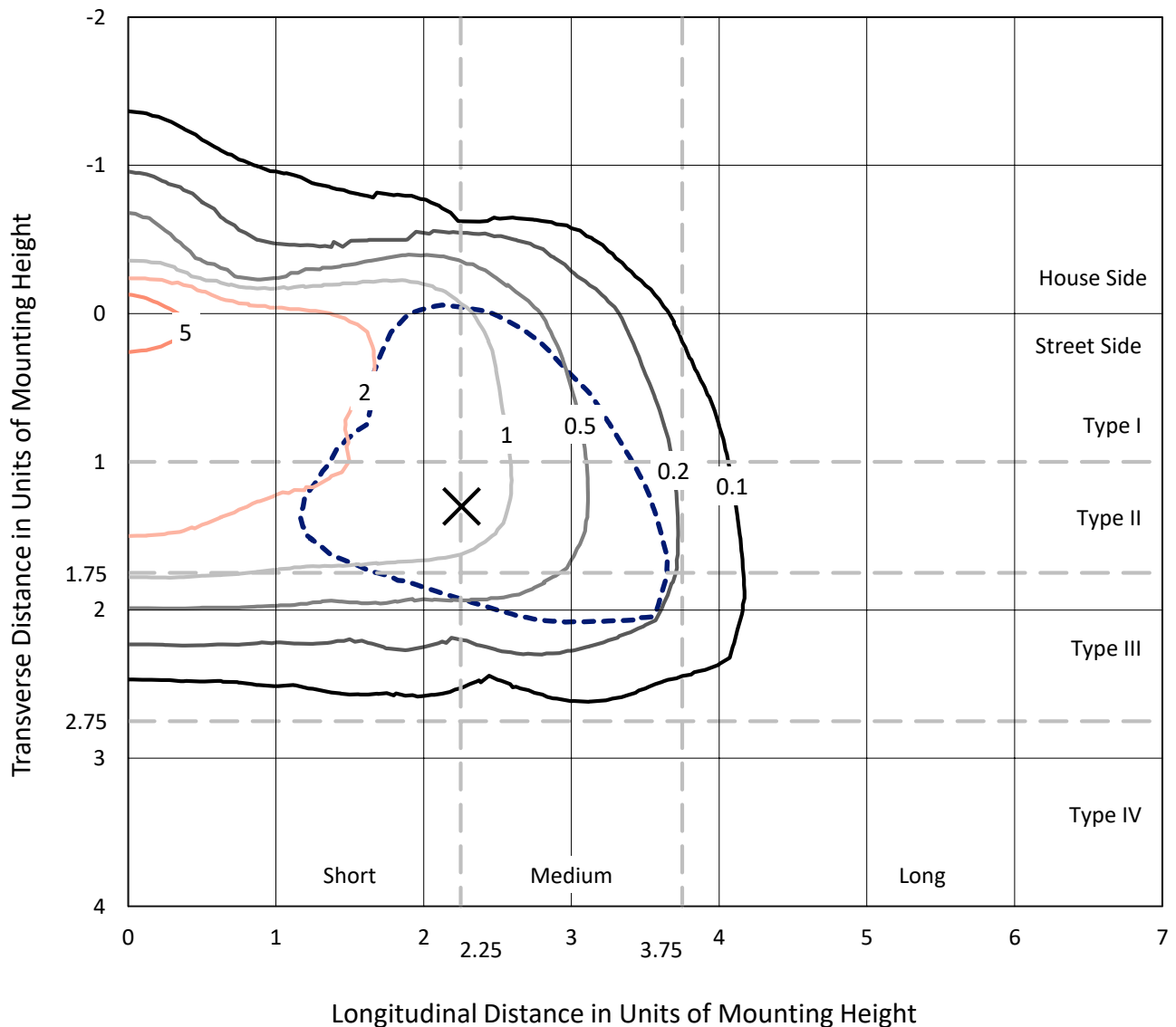
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

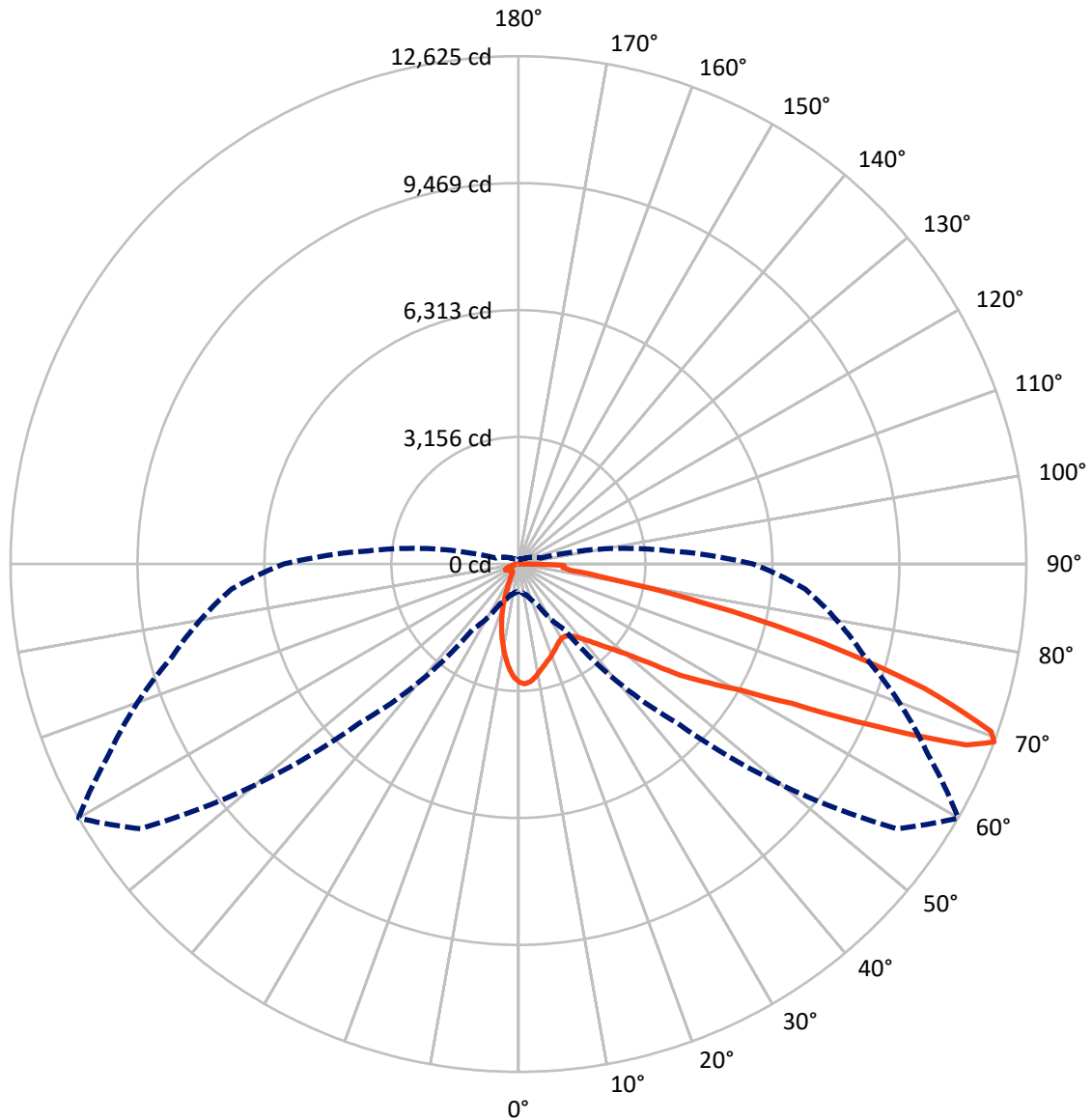
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.4 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	1641.8	0.0	1641.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9898.6	0.0	9898.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	11540.4	0.0	11540.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	2.2
10°-20°	529.8	4.6
20°-30°	675.0	5.8
30°-40°	928.0	8.0
40°-50°	1505.7	13.0
50°-60°	2414.8	20.9
60°-70°	3213.9	27.8
70°-80°	1735.2	15.0
80°-90°	289.5	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°	11540.4	100.0
0°-180°	11540.4	100.0

Coefficient of Utilization



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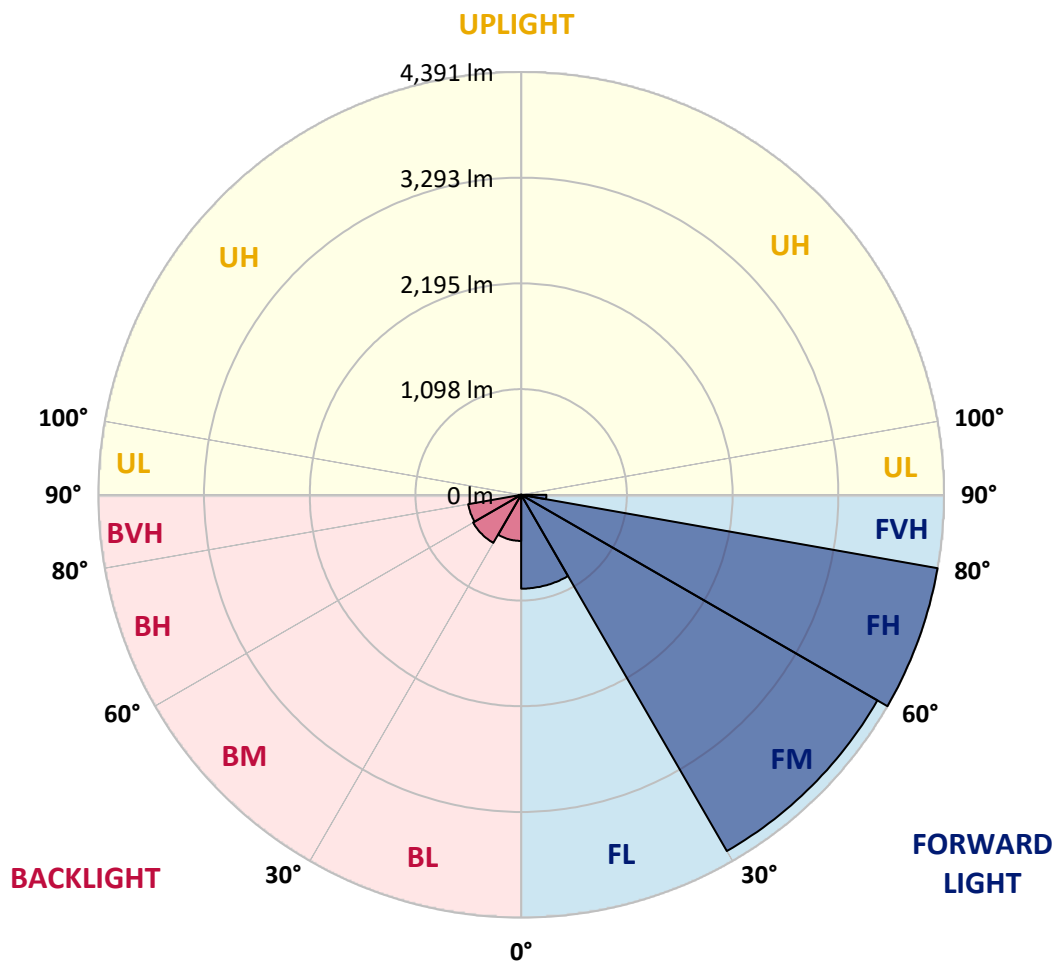
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	974.4	8.4			
FM	(30°-60°)	4271.6	37.0			
FH	(60°-80°)	4390.9	38.0			G2/5000
FVH	(80°-90°)	261.7	2.3			G3/500
BL	(0°-30°)	479.0	4.2	B1/500		
BM	(30°-60°)	576.8	5.0	B1/1000		
BH	(60°-80°)	558.2	4.8	B2/1000		G2/1000
BVH	(80°-90°)	27.9	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°	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7
2.5°	3000.9	3007.6	3004.8	3003.1	3008.1	3000.3	2984.2	2979.1	2971.3	2952.9	2921.7
5°	2888.3	2908.3	2907.2	2922.3	2947.4	2954.1	2946.8	2947.9	2933.4	2910.6	2858.7
7.5°	2693.7	2702.1	2706.5	2739.4	2785.1	2821.9	2853.2	2863.2	2856.5	2837.0	2770.1
10°	2493.0	2499.7	2510.3	2548.8	2606.8	2657.5	2716.6	2750.6	2765.1	2761.7	2687.0
12.5°	2320.8	2327.5	2341.4	2384.9	2454.0	2516.4	2602.3	2644.7	2679.2	2699.8	2619.6
15°	2166.3	2180.8	2194.2	2244.4	2321.9	2403.8	2500.8	2554.3	2607.9	2654.1	2559.9
17.5°	2045.9	2060.4	2068.2	2113.9	2196.4	2296.8	2410.5	2473.5	2540.4	2616.2	2500.8
20°	1976.2	1982.9	1979.6	2005.2	2079.4	2185.9	2320.8	2393.8	2474.6	2580.5	2441.7
22.5°	1956.7	1957.3	1945.0	1942.2	1990.2	2079.9	2224.9	2313.5	2412.7	2557.1	2391.0
25°	2004.1	2002.4	1969.0	1941.7	1946.7	1999.1	2132.3	2235.5	2360.9	2552.1	2352.0
27.5°	2109.5	2114.5	2064.9	2013.6	1962.9	1961.2	2062.1	2170.8	2318.5	2575.0	2335.3
30°	2257.2	2265.6	2212.6	2147.4	2052.1	1973.5	2034.8	2132.3	2292.3	2622.4	2332.5
32.5°	2418.9	2427.8	2387.7	2319.1	2194.2	2049.3	2053.7	2135.7	2291.2	2688.7	2351.4
35°	2591.1	2601.2	2580.5	2522.6	2383.8	2189.2	2126.2	2189.8	2327.5	2790.2	2402.2
37.5°	2783.5	2799.1	2804.7	2749.5	2601.2	2373.7	2244.9	2292.3	2409.4	2931.2	2495.3
40°	3060.5	3082.3	3080.6	3001.4	2850.4	2622.9	2428.4	2440.6	2537.1	3119.6	2644.1
42.5°	3591.2	3595.7	3456.9	3284.6	3124.6	2884.9	2644.7	2634.6	2713.2	3358.2	2863.2
45°	4266.4	4248.0	3939.1	3606.3	3411.2	3186.0	2926.2	2877.1	2936.8	3649.2	3137.5
47.5°	4826.6	4784.2	4394.0	3934.7	3714.5	3513.2	3256.8	3170.9	3203.8	3979.3	3492.0
50°	5021.2	4989.4	4666.1	4207.8	4001.6	3912.4	3663.7	3542.2	3551.1	4372.8	3907.3
52.5°	4979.4	4974.9	4759.2	4387.9	4270.3	4331.6	4240.2	4075.7	3988.7	4809.9	4355.5
55°	4880.7	4890.2	4812.1	4597.5	4577.4	4736.3	4993.3	4871.8	4601.4	5250.9	4818.8
57.5°	4537.8	4562.4	4734.1	4861.2	5071.9	5308.3	5599.8	5565.3	5260.9	5727.5	5369.6
60°	3655.9	3712.8	4173.3	4809.9	5580.9	6320.1	6450.5	6370.3	5941.0	6319.0	6097.1
62.5°	2561.6	2620.7	3168.1	4164.3	5497.3	7462.9	7971.3	7625.1	6917.7	7190.3	7038.7
65°	1371.4	1399.8	1817.9	2889.4	4641.0	7698.7	10194.0	9667.2	8464.1	8264.6	7844.2
67.5°	756.5	772.1	932.1	1458.9	2972.5	6779.4	11610.0	12008.0	10396.9	8979.8	7697.6
69°	684.0	698.5	803.3	1104.9	1989.1	5605.4	11471.7	12625.1	11244.3	8909.0	7155.7
70°	669.0	682.3	776.6	1018.5	1610.0	4620.3	11008.4	12467.4	11446.1	8655.3	6683.0
72.5°	602.1	616.6	708.0	914.8	1375.8	2303.5	8720.0	10541.3	10391.9	7504.7	5069.1
75°	561.4	574.8	729.7	895.9	1317.3	1457.8	5748.7	7769.0	7639.1	5249.7	2733.3
77.5°	240.3	239.2	338.4	758.2	1336.8	1411.5	3089.0	4853.4	4428.0	2243.8	784.9
80°	160.6	157.8	160.6	223.0	1225.9	1419.3	1618.3	2463.5	1860.8	572.0	386.9
82.5°	138.3	136.0	141.0	136.0	430.9	1620.0	1375.8	1310.1	884.7	325.0	191.8
85°	93.1	89.2	121.5	122.1	203.5	1439.4	1549.8	1106.6	715.8	192.9	94.8
87.5°	44.6	43.5	70.8	86.4	119.3	584.8	1738.8	1133.9	721.9	98.7	45.2
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°	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7
2.5°	2912.2	2889.4	2867.1	2840.3	2812.5	2781.2	2765.6	2750.0	2746.1	2741.7	2726.0
5°	2832.0	2799.6	2743.9	2682.6	2617.9	2554.9	2507.0	2476.9	2454.0	2442.3	2421.7
7.5°	2728.3	2680.9	2583.3	2477.4	2368.7	2269.5	2183.6	2129.6	2078.3	2054.3	2027.0
10°	2629.6	2558.8	2407.2	2251.1	2095.0	1945.0	1804.0	1704.2	1615.6	1565.9	1530.8
12.5°	2544.9	2447.9	2237.7	2026.4	1812.3	1598.8	1387.6	1221.4	1082.6	1009.6	972.2
15°	2462.4	2345.3	2076.6	1808.4	1533.6	1243.2	965.5	777.1	662.3	616.6	601.0
17.5°	2387.7	2237.7	1914.9	1588.8	1246.0	894.7	648.9	545.2	501.2	486.1	481.1
20°	2306.8	2129.0	1747.1	1359.1	946.0	625.5	506.7	461.0	443.2	438.7	436.5
22.5°	2228.8	2022.0	1586.6	1113.3	679.6	482.8	435.4	416.4	413.6	417.5	417.5
25°	2162.4	1926.1	1413.2	856.3	498.9	406.4	389.7	385.2	395.8	410.3	413.1
27.5°	2112.8	1847.5	1228.7	632.2	397.5	353.4	352.9	360.1	386.3	414.2	419.8
30°	2078.8	1772.8	1031.3	456.0	333.4	311.1	320.0	335.6	374.1	413.6	424.2
32.5°	2061.5	1717.6	825.6	352.9	285.4	273.2	288.2	307.2	345.1	381.9	395.8
35°	2074.9	1676.9	631.6	294.3	252.0	242.5	258.1	276.5	298.8	314.4	325.0
37.5°	2125.1	1660.7	476.6	263.7	229.1	220.2	232.5	243.1	252.0	256.4	261.5
40°	2233.2	1678.0	381.9	248.1	216.3	205.2	210.2	214.1	219.6	224.1	226.3
42.5°	2392.7	1729.8	342.3	241.9	209.6	193.4	192.3	194.0	201.2	209.6	211.3
45°	2615.7	1821.3	339.5	245.8	206.3	184.0	178.9	181.2	192.3	205.2	207.4
47.5°	2900.5	1960.6	361.8	257.6	209.1	178.9	170.6	173.4	187.3	204.6	207.4
50°	3245.6	2155.2	399.2	274.8	221.3	180.1	167.8	169.5	184.0	202.9	205.7
52.5°	3653.1	2431.1	439.8	291.6	234.1	187.3	170.0	166.1	179.5	196.2	199.6
55°	4106.4	2785.1	481.7	306.6	240.8	196.2	174.5	161.7	171.1	185.1	187.9
57.5°	4662.7	3280.2	554.1	321.1	245.3	202.4	178.9	157.2	160.6	170.6	172.8
60°	5415.9	3980.4	681.8	345.1	255.3	204.6	178.4	153.3	150.0	155.5	156.7
62.5°	6318.4	4740.8	788.3	375.2	272.0	206.3	175.0	150.5	141.0	141.0	142.2
65°	6854.1	4944.2	729.2	400.3	286.0	204.6	171.1	147.7	134.4	128.2	128.8
67.5°	6399.8	4348.3	624.9	405.3	285.4	196.8	165.0	142.7	127.7	118.2	117.6
69°	5830.6	3751.8	578.1	391.9	272.0	186.8	157.2	137.1	122.6	112.6	112.1
70°	5371.8	3387.8	547.4	377.4	257.6	179.5	151.1	132.1	118.7	109.3	108.2
72.5°	3905.7	2219.9	467.7	324.5	212.4	150.5	130.4	116.0	105.9	100.3	99.2
75°	1951.7	1058.6	379.6	263.1	162.8	120.4	107.0	97.0	92.0	90.9	90.3
77.5°	641.1	485.0	271.5	196.2	121.0	94.2	86.4	79.2	78.0	81.4	80.3
80°	352.3	282.1	172.3	129.9	82.5	69.1	68.0	64.1	65.8	71.4	70.2
82.5°	179.5	146.6	106.5	78.0	55.7	49.6	54.1	51.8	54.1	59.1	58.5
85°	88.6	80.3	67.5	47.4	36.8	31.8	38.5	40.1	41.3	45.2	45.2
87.5°	51.3	47.4	35.7	22.3	18.4	16.7	22.3	21.7	25.6	27.9	27.3
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)