

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: P300614

Luminaire Tested: **GLNA-AF-04-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-04-LED-E1-RW-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19114.6 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 171
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

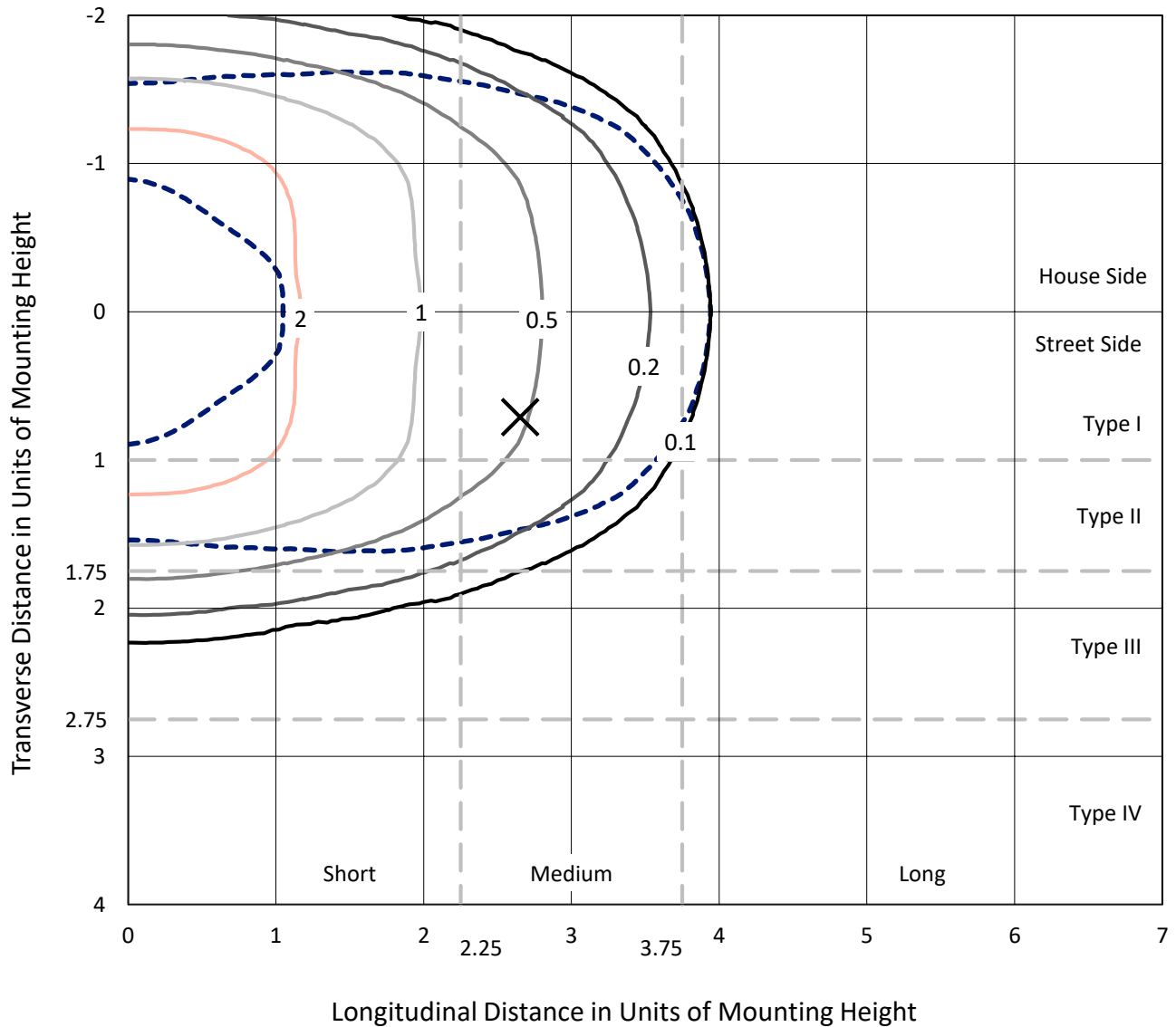


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Iso-Footcandle Lines of Horizontal Illumination

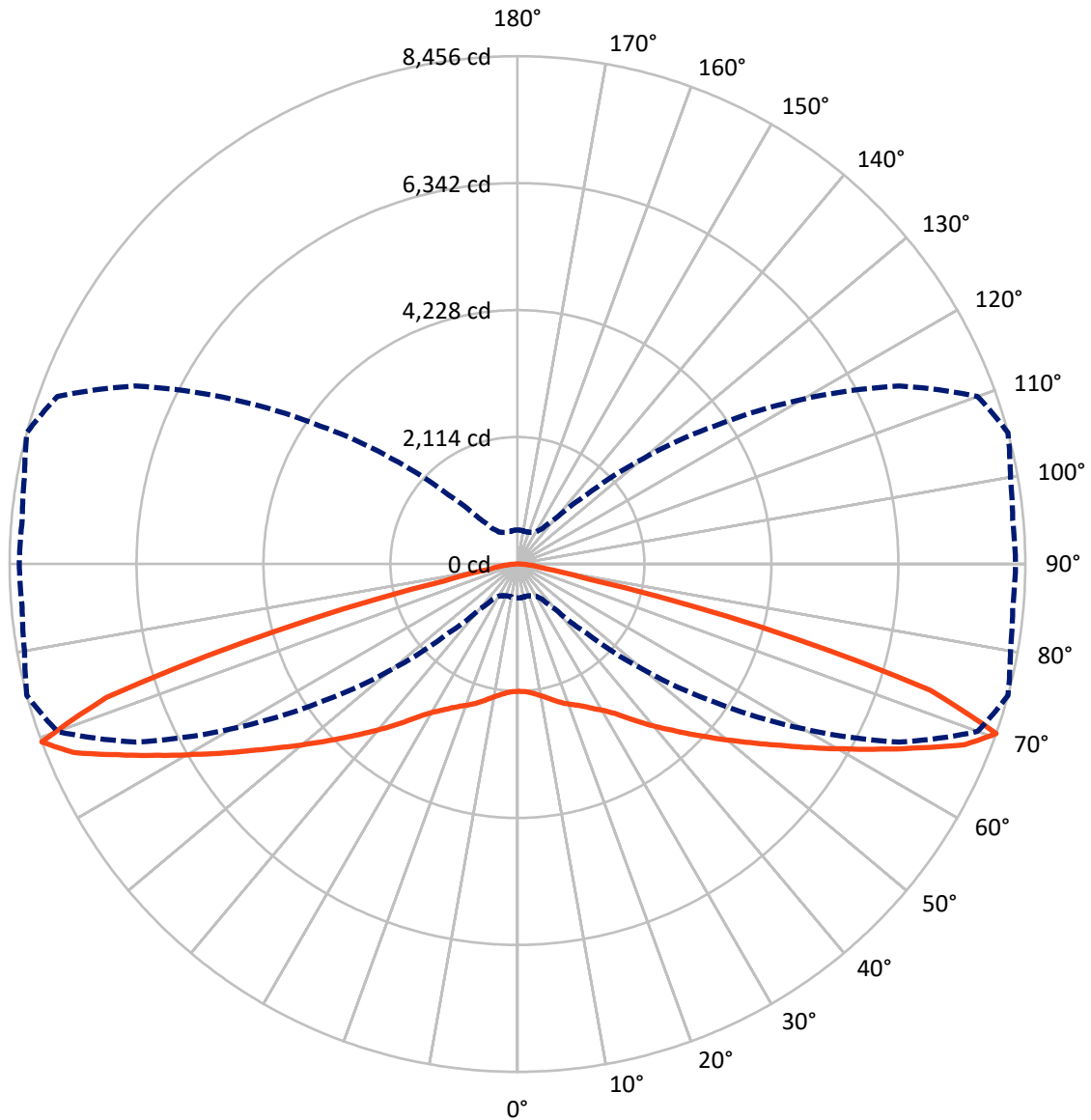
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9557.3	0.0	9557.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9557.3	0.0	9557.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	19114.6	0.0	19114.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	1.1
10°-20°	631.8	3.3
20°-30°	1189.2	6.2
30°-40°	2105.9	11.0
40°-50°	3521.7	18.4
50°-60°	4907.5	25.7
60°-70°	4550.9	23.8
70°-80°	1813.7	9.5
80°-90°	190.6	1.0
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°	19114.6	100.0
0°-180°	19114.6	100.0



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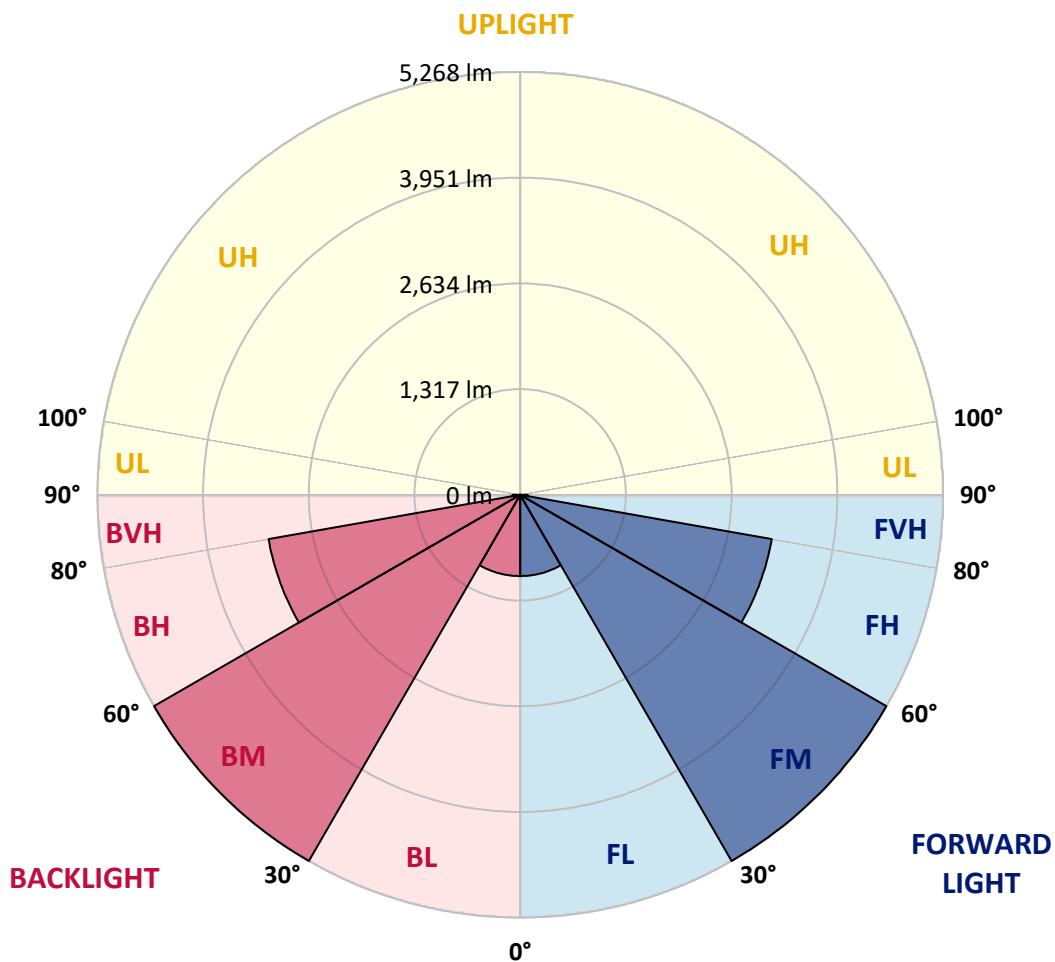
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1012.2	5.3			
FM	(30°-60°)	5267.5	27.6			
FH	(60°-80°)	3182.3	16.6			G2/5000
FVH	(80°-90°)	95.3	0.5			G1/100
BL	(0°-30°)	1012.2	5.3	B3/2500		
BM	(30°-60°)	5267.5	27.6	B4/8500		
BH	(60°-80°)	3182.3	16.6	B4/5000		G4/5000
BVH	(80°-90°)	95.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3
2.5°	2116.6	2114.8	2116.6	2115.7	2117.5	2117.5	2119.4	2123.0	2123.0	2125.7	2124.8
5°	2095.9	2095.0	2097.7	2100.4	2103.1	2108.5	2113.9	2122.1	2128.4	2132.9	2137.4
7.5°	2055.2	2055.2	2058.8	2065.1	2071.5	2083.2	2095.9	2112.1	2128.4	2141.9	2153.7
10°	2021.8	2023.6	2028.1	2039.0	2049.8	2067.9	2085.0	2108.5	2131.1	2153.7	2171.7
12.5°	2001.9	2004.6	2012.8	2029.0	2047.1	2071.5	2097.7	2127.5	2152.8	2179.9	2197.9
15°	2008.2	2010.0	2021.8	2041.7	2065.1	2095.9	2131.1	2166.3	2196.1	2225.0	2249.4
17.5°	2043.5	2046.2	2059.7	2082.3	2106.7	2142.8	2180.8	2220.5	2257.6	2290.1	2319.9
20°	2106.7	2109.4	2126.6	2151.0	2179.9	2216.9	2254.9	2296.4	2338.0	2372.3	2405.7
22.5°	2196.1	2200.7	2216.9	2241.3	2273.8	2313.6	2358.8	2403.0	2442.8	2474.4	2504.2
25°	2313.6	2323.5	2338.9	2366.0	2400.3	2436.4	2485.2	2530.4	2568.3	2598.1	2619.8
27.5°	2479.8	2493.4	2505.1	2531.3	2564.7	2599.1	2647.8	2687.6	2723.7	2752.6	2768.9
30°	2700.2	2713.8	2725.5	2750.8	2781.5	2814.1	2860.1	2895.4	2917.9	2940.5	2939.6
32.5°	2967.6	2982.1	2986.6	3013.7	3045.3	3080.6	3122.1	3142.0	3160.1	3162.8	3146.5
35°	3266.7	3273.9	3292.0	3328.1	3364.2	3393.1	3432.9	3442.8	3442.8	3429.3	3393.1
37.5°	3594.6	3599.1	3624.4	3665.1	3702.1	3731.9	3759.0	3778.9	3768.9	3740.0	3679.5
40°	3954.1	3962.3	3998.4	4034.5	4076.1	4104.1	4133.0	4136.6	4126.7	4084.2	4002.0
42.5°	4297.4	4304.7	4340.8	4397.7	4451.9	4490.8	4517.9	4523.3	4491.7	4452.8	4350.7
45°	4592.8	4611.8	4658.8	4725.6	4804.2	4859.3	4896.4	4911.7	4883.7	4833.1	4714.8
47.5°	4826.8	4845.8	4912.6	4992.1	5089.7	5179.1	5240.6	5273.1	5265.9	5227.9	5098.7
50°	4998.5	5016.5	5088.8	5186.4	5300.2	5411.3	5516.1	5593.8	5620.9	5603.7	5485.4
52.5°	5018.3	5048.1	5133.1	5264.1	5412.2	5564.0	5713.0	5844.9	5934.4	5947.9	5860.3
55°	4741.0	4770.8	4888.2	5082.5	5302.9	5550.4	5788.9	6011.2	6187.3	6277.7	6231.6
57.5°	4086.9	4140.2	4264.0	4491.7	4816.0	5186.4	5566.7	5961.5	6320.1	6559.5	6605.6
60°	3132.1	3195.3	3320.0	3562.1	3923.4	4365.2	4872.9	5456.5	6089.8	6628.2	6949.8
62.5°	2009.1	2068.8	2199.8	2410.2	2704.7	3183.5	3728.3	4421.2	5272.2	6122.3	6888.3
65°	1032.6	1065.1	1133.8	1261.1	1490.6	1848.3	2337.1	3028.2	4001.1	5049.9	6157.5
67.5°	654.1	660.4	675.7	693.8	752.5	876.3	1103.9	1534.9	2335.3	3429.3	4725.6
70°	565.5	565.5	558.3	555.6	562.8	580.0	615.2	715.5	985.6	1627.9	2725.5
72.5°	517.6	512.2	499.6	489.6	487.8	487.8	495.1	510.4	553.8	663.1	1066.9
75°	477.0	461.6	444.5	432.7	428.2	423.7	422.8	425.5	434.5	451.7	509.5
77.5°	427.3	407.4	387.6	375.8	370.4	364.1	358.6	352.3	347.8	353.2	378.5
80°	367.7	345.1	329.7	322.5	317.1	308.1	296.3	285.5	275.5	273.7	289.1
82.5°	296.3	270.1	271.0	273.7	263.8	251.1	238.5	226.8	209.6	200.6	209.6
85°	239.4	225.8	219.5	236.7	222.2	203.3	183.4	162.6	135.5	113.8	123.8
87.5°	93.0	93.0	139.1	214.1	192.4	157.2	134.6	114.7	71.4	55.1	56.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3
2.5°	2123.9	2125.7	2124.8	2123.9	2123.9	2123.0	2123.9	2123.9
5°	2140.1	2144.6	2144.6	2146.5	2146.5	2147.4	2148.3	2147.4
7.5°	2164.5	2172.7	2178.1	2184.4	2185.3	2186.2	2188.0	2186.2
10°	2188.9	2205.2	2216.9	2228.7	2234.1	2235.9	2237.7	2237.7
12.5°	2219.6	2242.2	2263.0	2283.8	2293.7	2299.1	2299.1	2302.7
15°	2270.2	2292.8	2317.2	2345.2	2362.4	2371.4	2374.1	2374.1
17.5°	2341.6	2361.5	2382.2	2409.3	2431.0	2442.8	2445.5	2444.6
20°	2424.7	2443.7	2455.4	2472.6	2491.5	2505.1	2508.7	2508.7
22.5°	2519.6	2530.4	2532.2	2537.6	2553.0	2571.0	2579.2	2581.0
25°	2624.3	2627.1	2619.8	2619.8	2629.8	2646.9	2655.1	2656.0
27.5°	2759.9	2746.3	2728.2	2721.9	2728.2	2748.1	2758.0	2761.7
30°	2928.8	2896.3	2854.7	2832.1	2828.5	2854.7	2872.8	2875.5
32.5°	3122.1	3075.1	3020.0	2974.0	2962.2	2978.5	3000.2	2999.3
35°	3351.6	3295.6	3228.7	3170.0	3142.9	3159.2	3189.9	3193.5
37.5°	3616.3	3543.1	3466.3	3392.2	3349.8	3354.3	3386.8	3397.6
40°	3911.7	3816.8	3720.2	3620.8	3560.3	3548.5	3588.3	3594.6
42.5°	4227.9	4105.9	3983.9	3861.1	3783.4	3765.3	3811.4	3808.7
45°	4564.8	4409.4	4266.7	4131.2	4039.1	4012.0	4049.9	4049.9
47.5°	4927.1	4735.6	4565.7	4412.2	4311.9	4273.0	4309.2	4311.9
50°	5311.0	5107.8	4908.1	4737.4	4617.2	4567.5	4614.5	4621.7
52.5°	5693.2	5495.3	5293.9	5098.7	4953.3	4892.8	4947.0	4970.5
55°	6080.7	5886.5	5694.1	5503.5	5330.9	5259.5	5317.4	5347.2
57.5°	6490.0	6310.2	6126.8	5934.4	5768.1	5657.0	5718.5	5758.2
60°	6969.7	6816.1	6625.5	6413.2	6245.1	6132.2	6167.4	6202.7
62.5°	7349.1	7408.7	7247.0	7001.3	6785.4	6640.8	6675.1	6712.2
65°	7165.7	7777.3	7920.9	7672.5	7373.5	7148.5	7134.1	7153.0
67.5°	5989.5	7177.4	8043.8	8280.5	8030.2	7717.7	7659.8	7687.8
70°	4006.5	5486.3	7014.8	8153.1	8455.7	8334.7	8277.8	8294.9
72.5°	1924.2	3195.3	4759.1	6272.2	7193.7	7616.5	7752.0	7817.9
75°	703.7	1268.4	2293.7	3456.4	4172.8	4830.4	5259.5	5434.8
77.5°	424.6	512.2	732.6	1103.0	1249.4	1398.4	1340.6	1369.5
80°	314.4	355.0	402.0	451.7	468.0	468.0	449.9	435.4
82.5°	220.4	246.6	269.2	296.3	303.5	290.0	238.5	189.7
85°	141.8	153.6	163.5	180.7	176.2	168.0	112.9	100.3
87.5°	65.0	74.1	77.7	85.8	82.2	78.6	56.0	47.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)