

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: P300550

Luminaire Tested: **GLNA-AF-03-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300550
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-03-LED-E1-RW
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18512.3 lumens
Efficiency: N/A
Efficacy: 111.5 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): 166
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

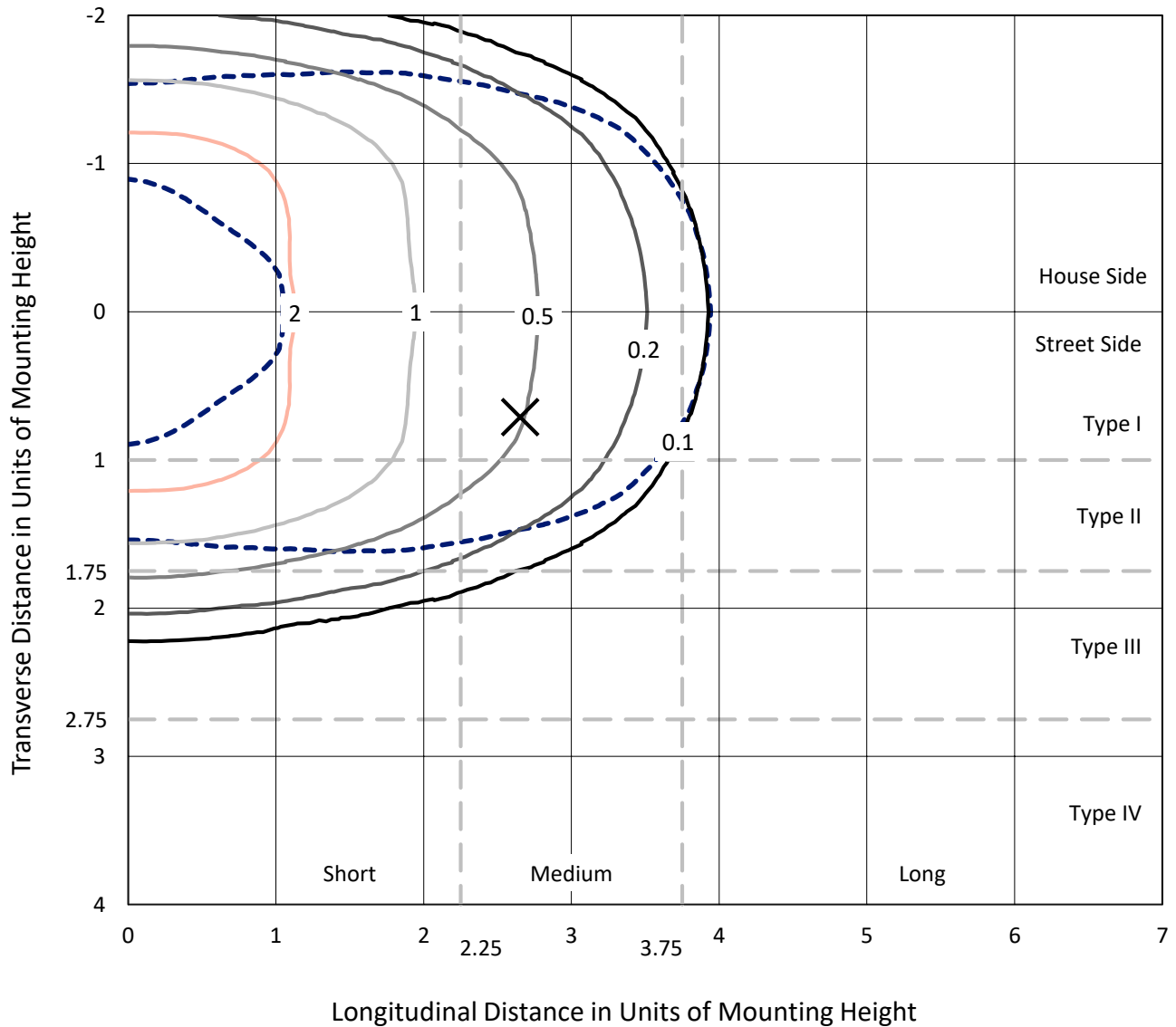


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

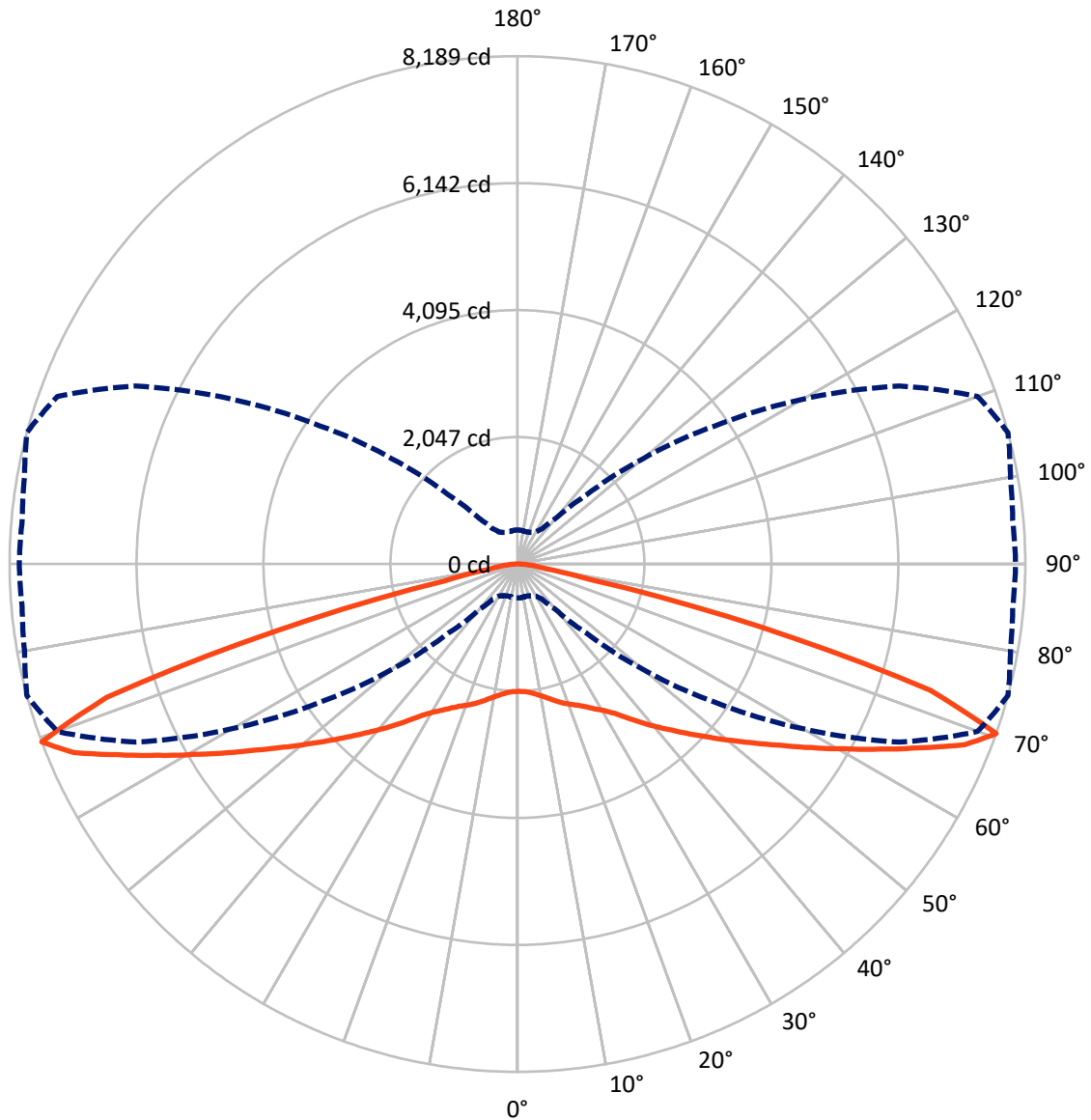


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Medium - Full Cutoff

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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	9256.1	0.0	9256.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9256.1	0.0	9256.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	18512.3	0.0	18512.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	1.1
10°-20°	611.9	3.3
20°-30°	1151.7	6.2
30°-40°	2039.5	11.0
40°-50°	3410.7	18.4
50°-60°	4752.8	25.7
60°-70°	4407.5	23.8
70°-80°	1756.5	9.5
80°-90°	184.6	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°	18512.3	100.0
0°-180°	18512.3	100.0



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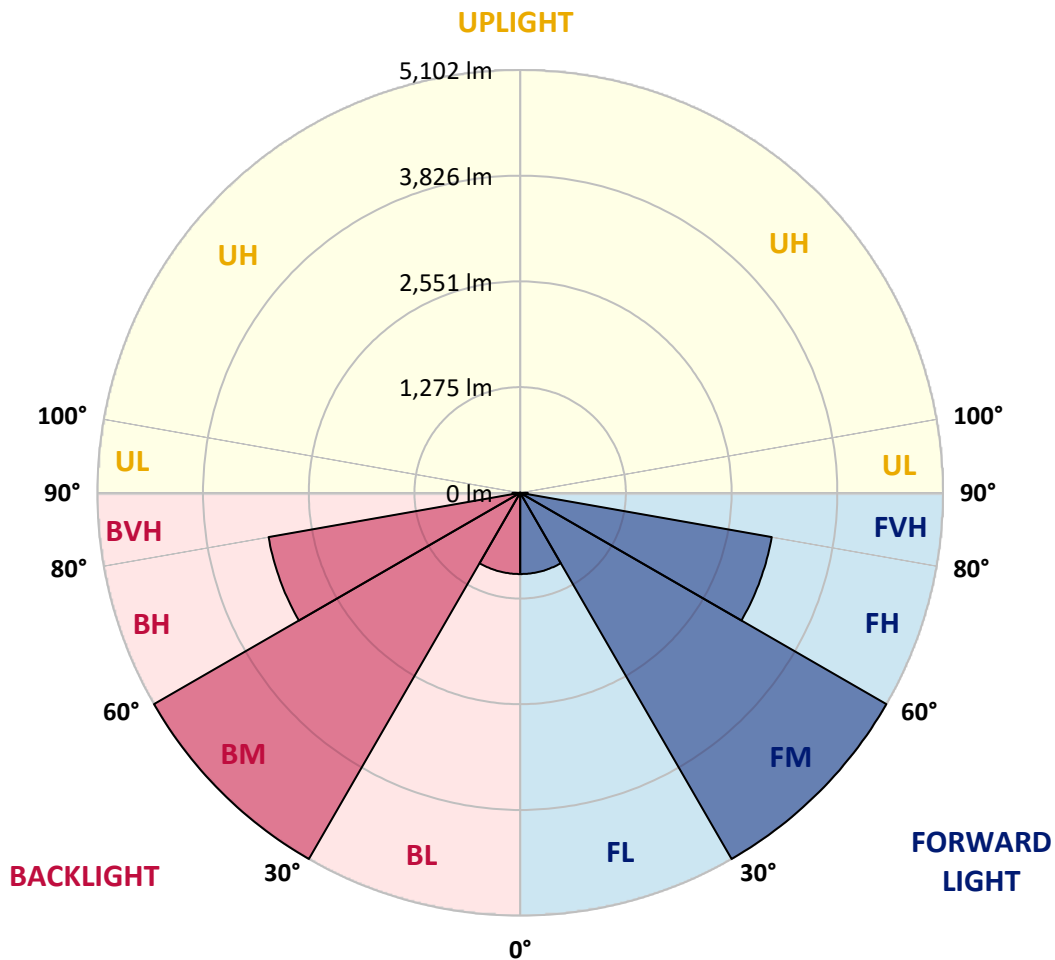
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	980.3	5.3			
FM	(30°-60°)	5101.5	27.6			
FH	(60°-80°)	3082.0	16.6			G2/5000
FVH	(80°-90°)	92.3	0.5			G1/100
BL	(0°-30°)	980.3	5.3	B2/1000		
BM	(30°-60°)	5101.5	27.6	B4/8500		
BH	(60°-80°)	3082.0	16.6	B4/5000		G4/5000
BVH	(80°-90°)	92.3	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°	2053.4	2053.4	2053.4	2053.4	2053.4	2053.4	2053.4	2053.4	2053.4	2053.4	2053.4
2.5°	2049.9	2048.2	2049.9	2049.1	2050.8	2050.8	2052.6	2056.1	2056.1	2058.7	2057.8
5°	2029.8	2028.9	2031.6	2034.2	2036.8	2042.1	2047.3	2055.2	2061.3	2065.7	2070.1
7.5°	1990.4	1990.4	1993.9	2000.1	2006.2	2017.6	2029.8	2045.6	2061.3	2074.4	2085.8
10°	1958.1	1959.8	1964.2	1974.7	1985.2	2002.7	2019.3	2042.1	2063.9	2085.8	2103.3
12.5°	1938.8	1941.5	1949.3	1965.1	1982.6	2006.2	2031.6	2060.4	2084.9	2111.2	2128.7
15°	1945.0	1946.7	1958.1	1977.3	2000.1	2029.8	2063.9	2098.1	2126.9	2154.9	2178.6
17.5°	1979.1	1981.7	1994.8	2016.7	2040.3	2075.3	2112.1	2150.6	2186.4	2217.9	2246.8
20°	2040.3	2042.9	2059.6	2083.2	2111.2	2147.1	2183.8	2224.1	2264.3	2297.5	2329.9
22.5°	2126.9	2131.3	2147.1	2170.7	2202.2	2240.7	2284.4	2327.3	2365.8	2396.4	2425.3
25°	2240.7	2250.3	2265.2	2291.4	2324.7	2359.7	2406.9	2450.7	2487.4	2516.3	2537.3
27.5°	2401.7	2414.8	2426.2	2451.5	2483.9	2517.2	2564.4	2602.9	2637.9	2665.9	2681.6
30°	2615.1	2628.3	2639.6	2664.1	2693.9	2725.4	2770.0	2804.1	2826.0	2847.9	2847.0
32.5°	2874.1	2888.1	2892.5	2918.7	2949.4	2983.5	3023.7	3043.0	3060.5	3063.1	3047.4
35°	3163.7	3170.7	3188.2	3223.2	3258.2	3286.2	3324.7	3334.3	3334.3	3321.2	3286.2
37.5°	3481.3	3485.7	3510.2	3549.6	3585.4	3614.3	3640.6	3659.8	3650.2	3622.2	3563.6
40°	3829.5	3837.4	3872.4	3907.4	3947.7	3974.8	4002.8	4006.3	3996.6	3955.5	3875.9
42.5°	4162.0	4169.0	4204.0	4259.1	4311.6	4349.2	4375.5	4380.7	4350.1	4312.5	4213.6
45°	4448.1	4466.5	4512.0	4576.7	4652.8	4706.2	4742.1	4757.0	4729.8	4680.8	4566.2
47.5°	4674.7	4693.1	4757.8	4834.8	4929.3	5015.9	5075.4	5106.9	5099.9	5063.2	4938.1
50°	4840.9	4858.4	4928.4	5022.9	5133.2	5240.8	5342.3	5417.5	5443.8	5427.1	5312.5
52.5°	4860.2	4889.1	4971.3	5098.2	5241.7	5388.6	5533.0	5660.8	5747.4	5760.5	5675.6
55°	4591.6	4620.5	4734.2	4922.3	5135.8	5375.5	5606.5	5821.7	5992.3	6079.8	6035.2
57.5°	3958.2	4009.8	4129.6	4350.1	4664.2	5022.9	5391.3	5773.6	6121.0	6352.8	6397.4
60°	3033.4	3094.6	3215.3	3449.8	3799.8	4227.6	4719.3	5284.5	5897.9	6419.3	6730.8
62.5°	1945.8	2003.6	2130.4	2334.3	2619.5	3083.2	3610.8	4281.9	5106.0	5929.4	6671.3
65°	1000.0	1031.5	1098.0	1221.4	1443.6	1790.1	2263.4	2932.7	3875.0	4890.8	5963.5
67.5°	633.4	639.6	654.4	671.9	728.8	848.7	1069.2	1486.5	2261.7	3321.2	4576.7
70°	547.7	547.7	540.7	538.1	545.1	561.7	595.8	692.9	954.5	1576.6	2639.6
72.5°	501.3	496.1	483.8	474.2	472.5	472.5	479.5	494.3	536.3	642.2	1033.3
75°	462.0	447.1	430.5	419.1	414.7	410.3	409.5	412.1	420.8	437.5	493.5
77.5°	413.8	394.6	375.3	364.0	358.7	352.6	347.3	341.2	336.8	342.1	366.6
80°	356.1	334.2	319.3	312.3	307.1	298.3	287.0	276.5	266.9	265.1	280.0
82.5°	287.0	261.6	262.5	265.1	255.5	243.2	231.0	219.6	203.0	194.2	203.0
85°	231.9	218.7	212.6	229.2	215.2	196.9	177.6	157.5	131.2	110.2	119.9
87.5°	90.1	90.1	134.7	207.4	186.4	152.2	130.4	111.1	69.1	53.4	54.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2053.4	2053.4	2053.4	2053.4	2053.4	2053.4	2053.4	2053.4
2.5°	2056.9	2058.7	2057.8	2056.9	2056.9	2056.1	2056.9	2056.9
5°	2072.7	2077.1	2077.1	2078.8	2078.8	2079.7	2080.6	2079.7
7.5°	2096.3	2104.2	2109.4	2115.6	2116.4	2117.3	2119.1	2117.3
10°	2119.9	2135.7	2147.1	2158.4	2163.7	2165.4	2167.2	2167.2
12.5°	2149.7	2171.6	2191.7	2211.8	2221.4	2226.7	2226.7	2230.2
15°	2198.7	2220.6	2244.2	2271.3	2287.9	2296.7	2299.3	2299.3
17.5°	2267.8	2287.0	2307.2	2333.4	2354.4	2365.8	2368.4	2367.5
20°	2348.3	2366.7	2378.0	2394.7	2413.0	2426.2	2429.7	2429.7
22.5°	2440.2	2450.7	2452.4	2457.7	2472.5	2490.0	2497.9	2499.7
25°	2541.7	2544.3	2537.3	2537.3	2546.9	2563.5	2571.4	2572.3
27.5°	2672.9	2659.8	2642.3	2636.1	2642.3	2661.5	2671.1	2674.6
30°	2836.5	2805.0	2764.8	2742.9	2739.4	2764.8	2782.3	2784.9
32.5°	3023.7	2978.2	2924.9	2880.2	2868.9	2884.6	2905.6	2904.7
35°	3246.0	3191.7	3127.0	3070.1	3043.9	3059.6	3089.4	3092.9
37.5°	3502.3	3431.4	3357.1	3285.3	3244.2	3248.6	3280.1	3290.6
40°	3788.4	3696.5	3602.9	3506.7	3448.1	3436.7	3475.2	3481.3
42.5°	4094.6	3976.5	3858.4	3739.4	3664.2	3646.7	3691.3	3688.7
45°	4421.0	4270.5	4132.3	4001.0	3911.8	3885.5	3922.3	3922.3
47.5°	4771.8	4586.3	4421.9	4273.1	4176.0	4138.4	4173.4	4176.0
50°	5143.7	4946.8	4753.5	4588.1	4471.7	4423.6	4469.1	4476.1
52.5°	5513.8	5322.2	5127.0	4938.1	4797.2	4738.6	4791.1	4813.8
55°	5889.1	5701.0	5514.6	5330.0	5162.9	5093.8	5149.8	5178.7
57.5°	6285.4	6111.3	5933.7	5747.4	5586.4	5478.8	5538.3	5576.8
60°	6750.0	6601.3	6416.7	6211.1	6048.3	5939.0	5973.1	6007.2
62.5°	7117.5	7175.2	7018.6	6780.7	6571.5	6431.6	6464.8	6500.7
65°	6939.9	7532.2	7671.3	7430.7	7141.1	6923.3	6909.3	6927.6
67.5°	5800.7	6951.3	7790.3	8019.5	7777.2	7474.5	7418.5	7445.6
70°	3880.3	5313.4	6793.8	7896.2	8189.3	8072.0	8016.9	8033.5
72.5°	1863.6	3094.6	4609.1	6074.6	6967.0	7376.5	7507.7	7571.6
75°	681.6	1228.4	2221.4	3347.5	4041.3	4678.2	5093.8	5263.5
77.5°	411.2	496.1	709.6	1068.3	1210.0	1354.4	1298.4	1326.4
80°	304.5	343.8	389.3	437.5	453.2	453.2	435.7	421.7
82.5°	213.5	238.9	260.7	287.0	294.0	280.9	231.0	183.7
85°	137.4	148.7	158.4	175.0	170.6	162.7	109.4	97.1
87.5°	63.0	71.7	75.2	83.1	79.6	76.1	54.2	45.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)