

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: P269156

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269156
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: GLEON-AF-03-LED-E1-SL3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12756.3 lumens
Efficiency: N/A
Efficacy: 102.9 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

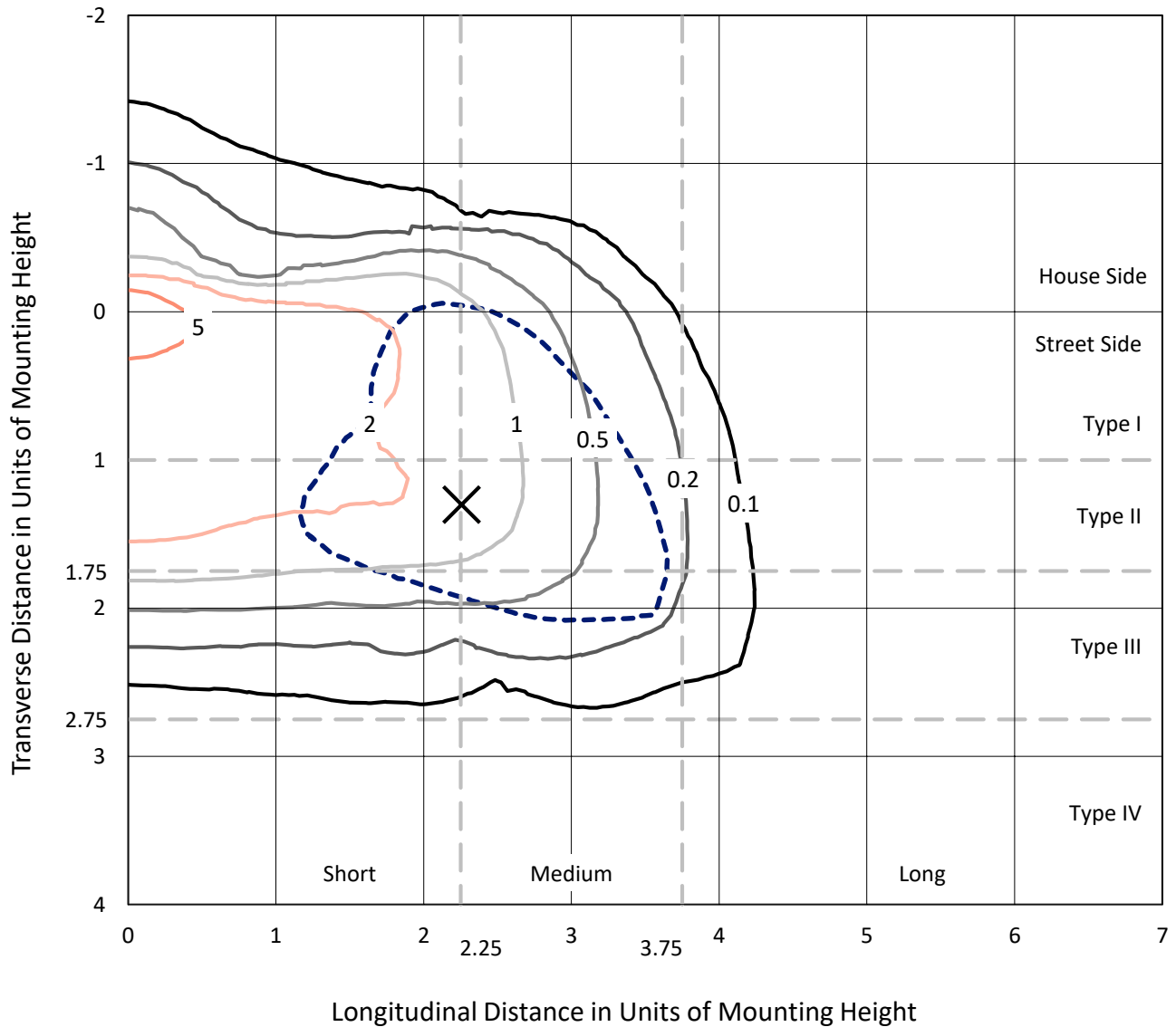
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

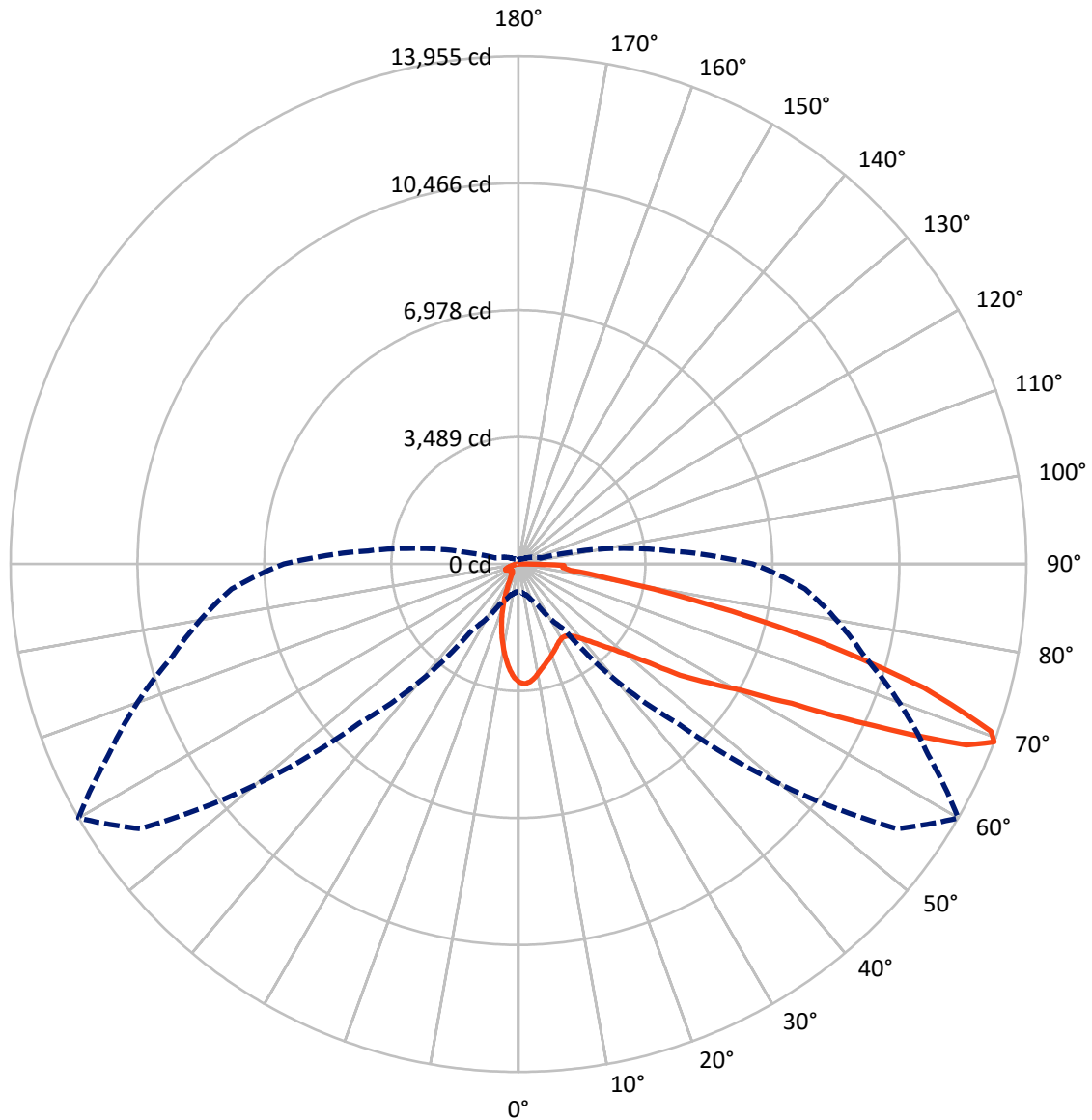
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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	1814.8	0.0	1814.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10941.5	0.0	10941.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	12756.3	0.0	12756.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	2.2
10°-20°	585.6	4.6
20°-30°	746.1	5.8
30°-40°	1025.7	8.0
40°-50°	1664.3	13.0
50°-60°	2669.2	20.9
60°-70°	3552.5	27.8
70°-80°	1918.1	15.0
80°-90°	320.0	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°	12756.3	100.0
0°-180°	12756.3	100.0

Coefficient of Utilization



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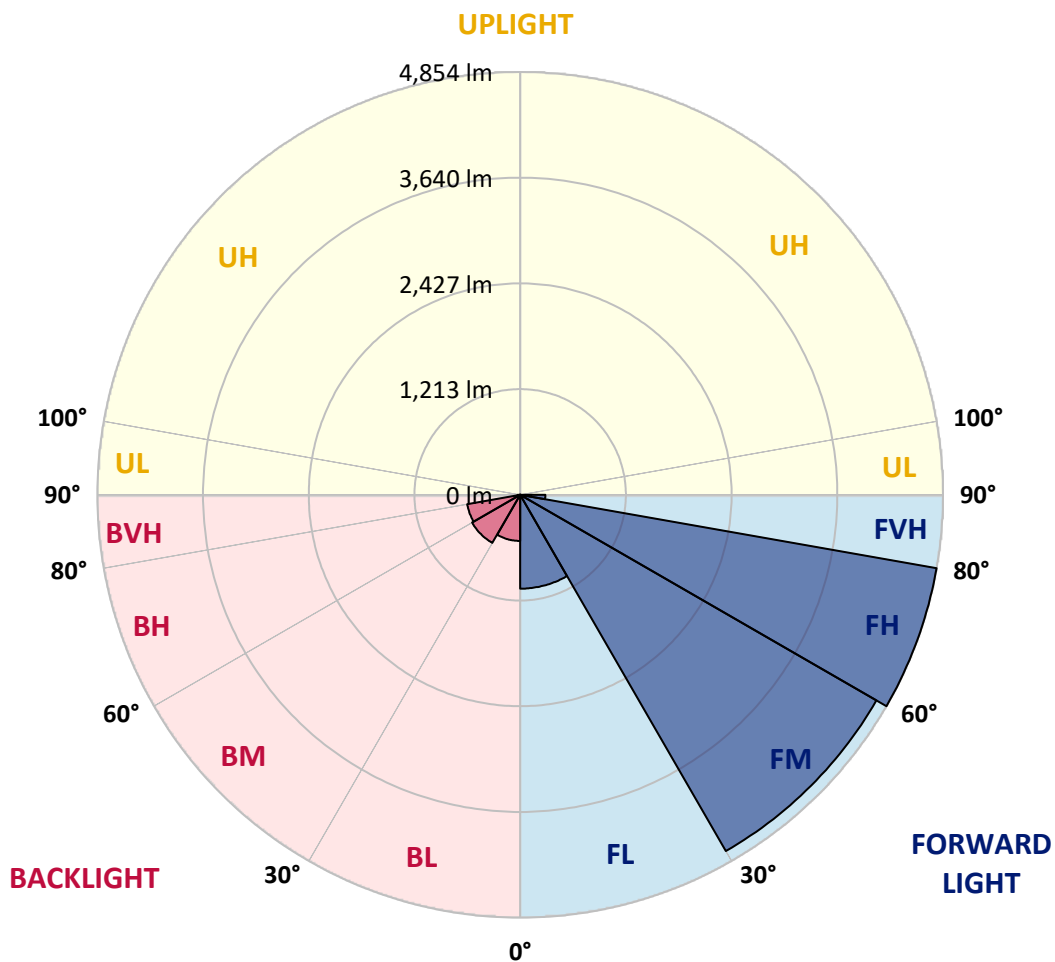
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1077.1	8.4			
FM	(30°-60°)	4721.7	37.0			
FH	(60°-80°)	4853.5	38.0			G2/5000
FVH	(80°-90°)	289.2	2.3			G3/500
BL	(0°-30°)	529.4	4.2	B2/1000		
BM	(30°-60°)	637.6	5.0	B1/1000		
BH	(60°-80°)	617.0	4.8	B2/1000		G2/1000
BVH	(80°-90°)	30.8	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°	3250.4	3250.4	3250.4	3250.4	3250.4	3250.4	3250.4	3250.4	3250.4	3250.4	3250.4
2.5°	3317.0	3324.4	3321.4	3319.5	3325.0	3316.5	3298.5	3293.0	3284.5	3264.0	3229.5
5°	3192.5	3214.8	3213.5	3230.1	3258.0	3265.2	3257.3	3258.5	3242.5	3217.2	3159.9
7.5°	2977.5	2986.8	2991.6	3028.0	3078.6	3119.3	3153.8	3164.9	3157.5	3136.0	3062.0
10°	2755.7	2763.0	2774.8	2817.4	2881.5	2937.5	3002.8	3040.4	3056.5	3052.7	2970.2
12.5°	2565.3	2572.7	2588.0	2636.2	2712.5	2781.6	2876.5	2923.4	2961.5	2984.3	2895.5
15°	2394.6	2410.6	2425.5	2480.8	2566.5	2657.0	2764.4	2823.5	2882.7	2933.8	2829.7
17.5°	2261.6	2277.6	2286.1	2336.8	2427.8	2538.8	2664.6	2734.1	2808.0	2891.9	2764.4
20°	2184.5	2191.9	2188.1	2216.5	2298.5	2416.1	2565.3	2646.0	2735.3	2852.5	2699.0
22.5°	2162.8	2163.5	2150.0	2146.9	2199.9	2299.1	2459.3	2557.3	2667.0	2826.5	2643.0
25°	2215.3	2213.5	2176.5	2146.3	2151.8	2209.7	2357.1	2471.0	2609.7	2820.9	2599.8
27.5°	2331.7	2337.3	2282.5	2225.7	2169.6	2167.8	2279.4	2399.6	2562.9	2846.3	2581.3
30°	2495.0	2504.3	2445.7	2373.6	2268.3	2181.4	2249.1	2357.1	2533.8	2898.7	2578.2
32.5°	2673.7	2683.5	2639.2	2563.5	2425.5	2265.2	2270.0	2360.7	2532.6	2972.0	2599.2
35°	2864.2	2875.2	2852.5	2788.3	2634.9	2419.9	2350.2	2420.5	2572.7	3084.2	2655.2
37.5°	3076.8	3094.0	3100.1	3039.1	2875.2	2623.8	2481.5	2533.8	2663.3	3240.0	2758.2
40°	3382.9	3407.0	3405.1	3317.7	3150.6	2899.3	2684.2	2697.8	2804.4	3448.4	2922.6
42.5°	3969.6	3974.6	3821.1	3630.7	3453.9	3188.9	2923.4	2912.2	2999.1	3712.1	3164.9
45°	4715.8	4695.5	4354.2	3986.3	3770.5	3521.6	3234.4	3180.3	3246.1	4033.7	3468.0
47.5°	5335.2	5288.3	4857.0	4349.2	4105.9	3883.4	3599.9	3504.9	3541.4	4398.6	3859.9
50°	5550.2	5515.1	5157.7	4651.2	4423.2	4324.6	4049.6	3915.4	3925.2	4833.5	4319.1
52.5°	5503.9	5499.1	5260.6	4850.2	4720.1	4788.0	4686.8	4505.1	4409.1	5316.7	4814.5
55°	5395.0	5405.5	5319.1	5081.9	5059.8	5235.3	5519.4	5385.1	5086.3	5804.0	5326.5
57.5°	5016.0	5043.1	5232.8	5373.3	5606.2	5867.5	6189.9	6151.7	5815.2	6331.0	5935.3
60°	4041.0	4103.9	4612.9	5316.7	6168.9	6985.9	7130.1	7041.5	6566.9	6984.7	6739.4
62.5°	2831.5	2896.9	3502.0	4603.1	6076.5	8249.1	8811.1	8428.4	7646.6	7947.8	7780.3
65°	1515.9	1547.3	2009.5	3193.8	5130.0	8509.9	11268.0	10685.7	9355.8	9135.4	8670.7
67.5°	836.2	853.5	1030.3	1612.5	3285.6	7493.8	12833.1	13273.1	11492.2	9925.9	8508.7
69°	756.2	772.2	888.0	1221.3	2198.6	6196.0	12680.4	13955.3	12428.9	9847.6	7909.7
70°	739.5	754.2	858.4	1125.8	1779.6	5107.1	12168.4	13780.9	12652.0	9567.3	7387.1
72.5°	665.6	681.5	782.7	1011.2	1520.8	2546.2	9638.8	11651.8	11486.7	8295.4	5603.2
75°	620.5	635.3	806.6	990.2	1456.2	1611.4	6354.3	8587.4	8443.9	5802.8	3021.3
77.5°	265.5	264.3	374.1	838.1	1477.6	1560.3	3414.4	5364.7	4894.5	2480.2	867.7
80°	177.4	174.5	177.4	246.4	1355.1	1568.9	1788.9	2723.0	2056.8	632.2	427.7
82.5°	152.8	150.3	155.9	150.3	476.3	1790.7	1520.8	1448.1	978.0	359.2	212.0
85°	102.9	98.6	134.3	134.9	224.9	1591.1	1713.1	1223.2	791.1	213.2	104.7
87.5°	49.2	48.1	78.2	95.5	132.0	646.4	1922.0	1253.3	798.0	109.1	49.9
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°	3250.4	3250.4	3250.4	3250.4	3250.4	3250.4	3250.4	3250.4	3250.4	3250.4	3250.4
2.5°	3219.0	3193.8	3169.2	3139.5	3108.8	3074.3	3057.0	3039.8	3035.5	3030.5	3013.3
5°	3130.4	3094.7	3032.9	2965.1	2893.7	2824.1	2771.1	2737.9	2712.5	2699.5	2676.8
7.5°	3015.7	2963.4	2855.5	2738.5	2618.3	2508.5	2413.7	2353.9	2297.2	2270.7	2240.6
10°	2906.6	2828.5	2660.8	2488.2	2315.7	2150.0	1994.1	1883.7	1785.8	1730.9	1692.0
12.5°	2813.0	2705.8	2473.5	2240.0	2003.3	1767.2	1533.8	1350.2	1196.7	1116.0	1074.6
15°	2721.8	2592.4	2295.3	1999.0	1695.2	1374.1	1067.2	859.0	732.1	681.5	664.2
17.5°	2639.2	2473.5	2116.6	1756.1	1377.2	989.0	717.2	602.7	554.0	537.4	531.7
20°	2549.8	2353.3	1931.1	1502.3	1045.6	691.3	560.2	509.6	489.8	484.9	482.5
22.5°	2463.6	2235.1	1753.8	1230.6	751.2	533.7	481.2	460.3	457.2	461.5	461.5
25°	2390.3	2129.1	1562.2	946.5	551.5	449.2	430.7	425.7	437.6	453.6	456.6
27.5°	2335.5	2042.0	1358.1	698.8	439.4	390.7	390.0	398.0	427.1	457.9	464.1
30°	2297.9	1959.6	1139.9	504.0	368.5	343.8	353.8	371.0	413.5	457.2	468.9
32.5°	2278.7	1898.6	912.6	390.0	315.6	301.9	318.5	339.5	381.4	422.2	437.6
35°	2293.6	1853.6	698.2	325.4	278.6	268.1	285.3	305.7	330.2	347.6	359.2
37.5°	2349.0	1835.6	526.9	291.5	253.2	243.4	256.9	268.7	278.6	283.4	289.1
40°	2468.5	1854.8	422.2	274.3	239.0	226.7	232.3	236.7	242.8	247.8	250.2
42.5°	2644.8	1912.1	378.4	267.4	231.8	213.8	212.5	214.4	222.4	231.8	233.5
45°	2891.3	2013.1	375.3	271.7	228.0	203.3	197.7	200.2	212.5	226.7	229.2
47.5°	3206.1	2167.3	399.9	284.8	231.0	197.7	188.6	191.7	207.1	226.2	229.2
50°	3587.7	2382.2	441.2	303.7	244.7	199.1	185.5	187.3	203.3	224.2	227.5
52.5°	4038.1	2687.3	486.3	322.3	258.8	207.1	187.9	183.7	198.4	216.9	220.7
55°	4539.0	3078.6	532.3	338.9	266.2	216.9	192.9	178.8	189.2	204.5	207.7
57.5°	5153.9	3625.7	612.6	354.9	271.1	223.7	197.7	173.7	177.4	188.6	191.0
60°	5986.5	4399.7	753.6	381.4	282.2	226.2	197.2	169.5	165.7	171.9	173.2
62.5°	6984.1	5240.3	871.4	414.7	300.8	228.0	193.4	166.4	155.9	155.9	157.2
65°	7576.2	5465.2	806.0	442.4	316.2	226.2	189.2	163.3	148.5	141.8	142.3
67.5°	7074.2	4806.4	690.7	448.0	315.6	217.5	182.4	157.7	141.2	130.7	130.1
69°	6444.9	4147.0	639.1	433.3	300.8	206.4	173.7	151.5	135.6	124.4	123.8
70°	5937.7	3744.8	605.1	417.2	284.8	198.4	166.9	146.1	131.2	120.8	119.6
72.5°	4317.2	2453.7	517.1	358.7	234.7	166.4	144.2	128.2	117.0	110.9	109.8
75°	2157.4	1170.2	419.7	290.8	179.9	133.0	118.2	107.2	101.7	100.4	99.8
77.5°	708.7	536.1	300.2	216.9	133.7	104.2	95.5	87.6	86.2	90.0	88.8
80°	389.4	311.8	190.4	143.5	91.2	76.4	75.2	70.8	72.8	79.0	77.7
82.5°	198.4	162.1	117.7	86.2	61.7	54.8	59.7	57.3	59.7	65.3	64.7
85°	97.9	88.8	74.6	52.5	40.7	35.2	42.5	44.3	45.6	49.9	49.9
87.5°	56.8	52.5	39.4	24.7	20.3	18.4	24.7	24.1	28.3	30.8	30.3
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)