

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: P191472

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T3R-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16546.2 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
Input Voltage (V): NR
Input Current (A_{in}): 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

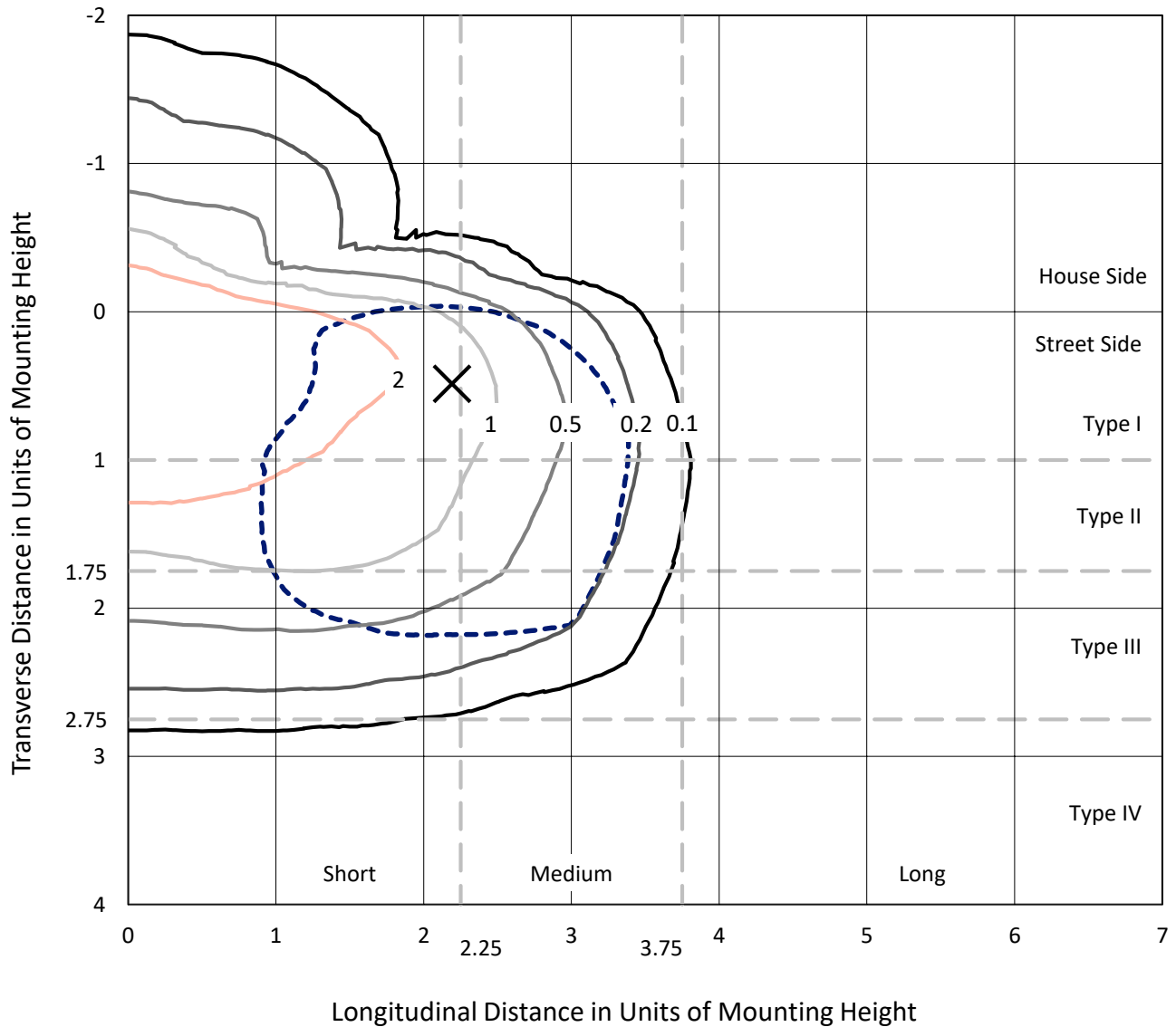


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

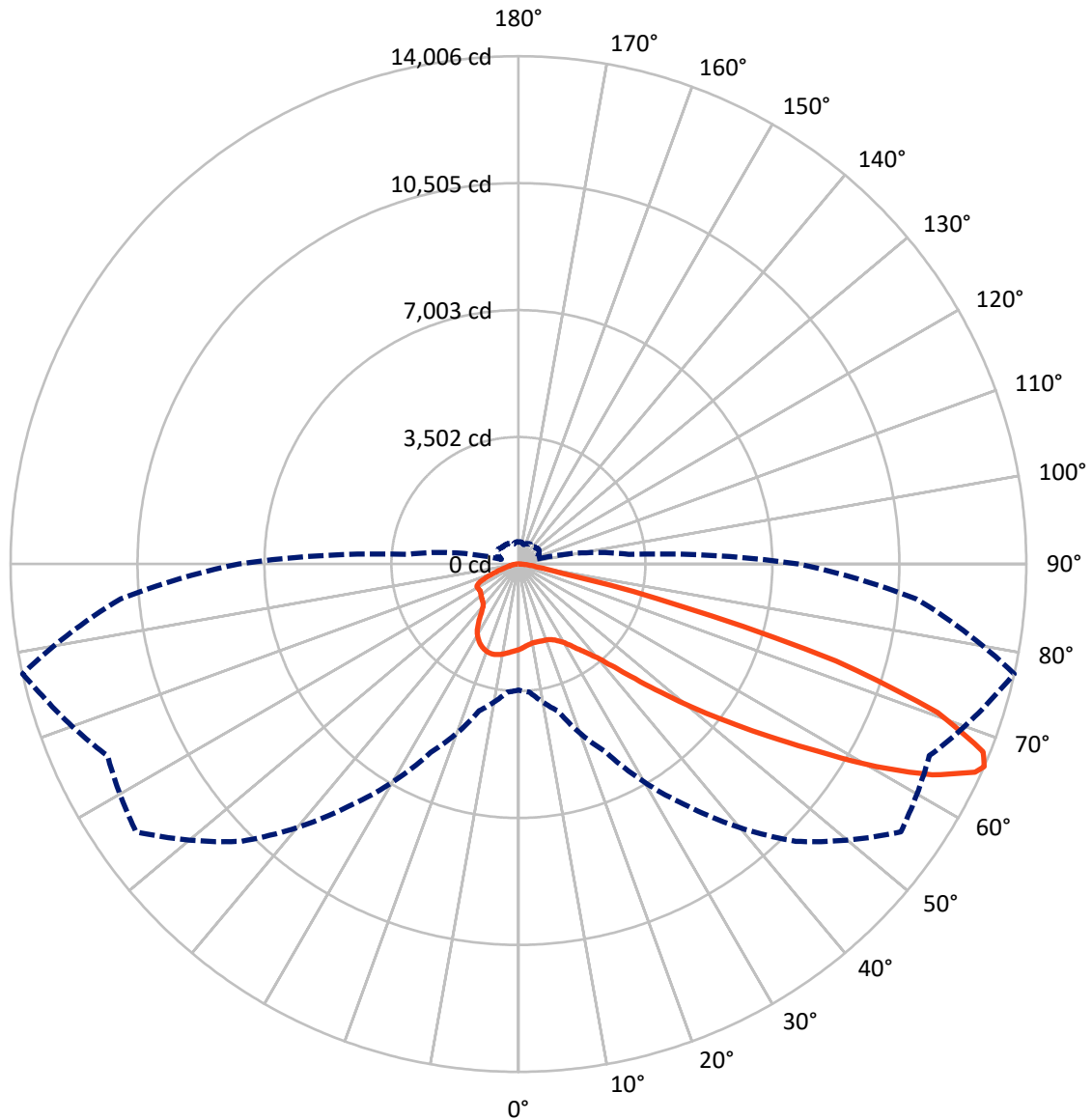


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2826.8	0.0	2826.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	13719.4	0.0	13719.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	16546.2	0.0	16546.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.7	1.3
10°-20°	594.3	3.6
20°-30°	1014.3	6.1
30°-40°	1623.7	9.8
40°-50°	2508.4	15.2
50°-60°	3557.8	21.5
60°-70°	4759.4	28.8
70°-80°	2066.9	12.5
80°-90°	210.8	1.3
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°	16546.2	100.0
0°-180°	16546.2	100.0



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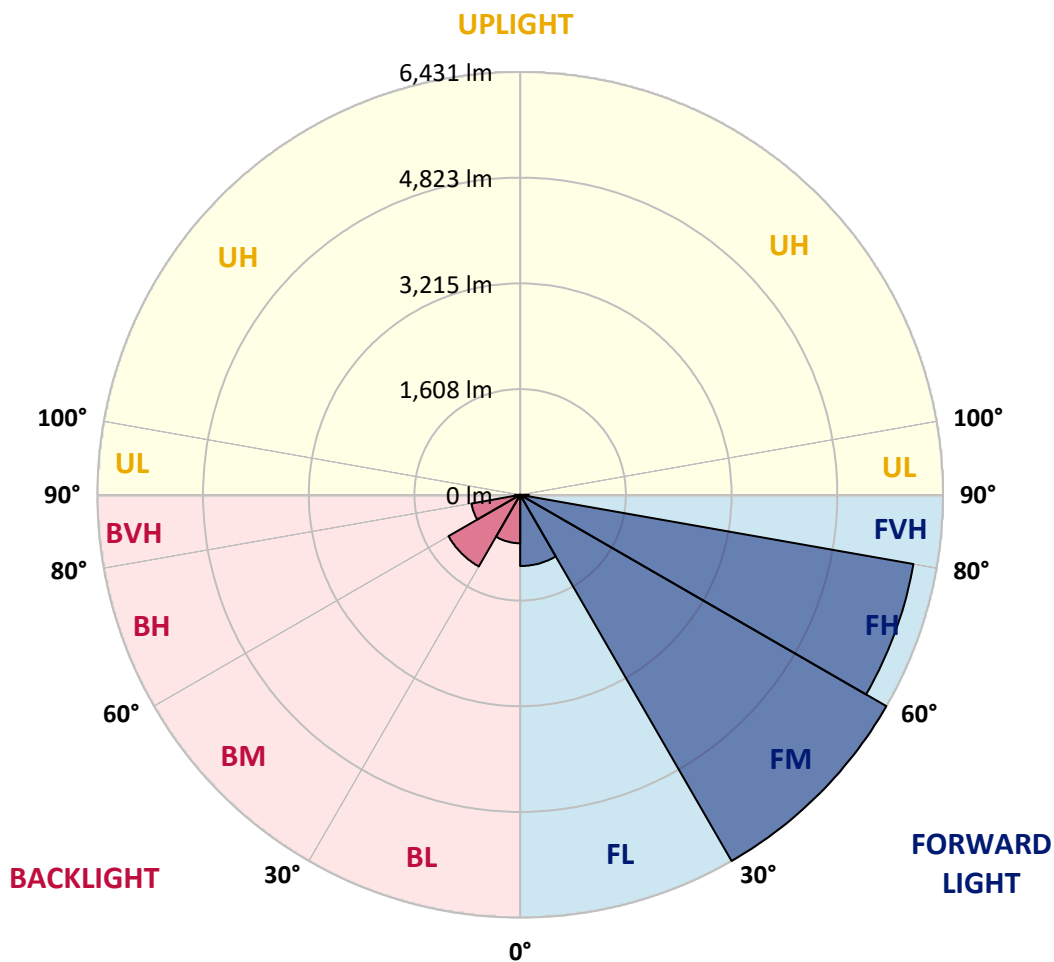
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1083.0	6.5			
FM	(30°-60°)	6430.7	38.9			
FH	(60°-80°)	6073.5	36.7			G3/7500
FVH	(80°-90°)	132.2	0.8			G2/225
BL	(0°-30°)	736.2	4.4	B2/1000		
BM	(30°-60°)	1259.2	7.6	B2/2500		
BH	(60°-80°)	752.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	78.6	0.5			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2357.9	2357.9	2357.9	2357.9	2357.9	2357.9	2357.9	2357.9	2357.9	2357.9	2357.9
2.5°	2085.9	2099.9	2111.7	2122.6	2144.5	2180.4	2221.8	2255.5	2304.0	2313.4	2339.2
5°	1894.3	1894.3	1903.7	1920.1	1949.8	2003.8	2060.0	2135.1	2240.7	2265.6	2334.5
7.5°	1801.3	1802.0	1807.6	1821.6	1847.4	1896.7	1958.4	2046.7	2189.8	2231.3	2348.5
10°	1835.7	1827.8	1816.1	1809.1	1813.0	1841.9	1900.5	1999.1	2158.5	2211.7	2379.8
12.5°	2028.0	2013.2	1972.5	1918.5	1867.0	1845.8	1880.3	1976.4	2145.2	2207.0	2421.2
15°	2342.3	2336.0	2260.2	2148.4	2023.3	1918.5	1895.1	1967.7	2146.9	2212.5	2470.5
17.5°	2736.3	2727.7	2627.7	2465.0	2260.9	2056.9	1947.5	1974.8	2152.3	2221.8	2518.2
20°	3134.2	3107.6	2999.8	2805.9	2544.0	2245.4	2034.2	1992.8	2159.3	2232.1	2568.2
22.5°	3431.3	3409.4	3312.5	3124.1	2822.3	2463.5	2150.8	2024.1	2182.1	2261.7	2630.0
25°	3692.4	3694.0	3597.8	3415.7	3103.7	2694.9	2300.8	2107.8	2239.9	2322.7	2714.4
27.5°	4015.3	3996.6	3906.6	3726.1	3382.1	2928.6	2482.2	2222.7	2325.9	2409.6	2825.4
30°	4401.6	4388.3	4284.3	4079.4	3690.9	3179.6	2689.4	2356.4	2436.9	2523.6	2970.9
32.5°	4855.7	4849.5	4741.6	4478.2	4047.4	3475.1	2932.5	2533.0	2602.6	2692.5	3179.6
35°	5389.0	5389.7	5262.3	4945.7	4437.6	3819.1	3208.5	2760.5	2804.3	2898.1	3428.2
37.5°	5717.3	5757.2	5709.5	5386.7	4879.3	4203.7	3566.6	3062.3	3034.2	3128.8	3694.8
40°	5787.7	5836.1	5987.0	5822.8	5373.4	4627.5	3884.0	3352.4	3317.2	3432.9	4038.0
42.5°	5689.1	5756.5	6075.4	6191.1	5897.9	5149.7	4310.8	3783.2	3738.6	3894.2	4464.9
45°	5630.5	5680.5	6049.6	6382.6	6352.9	5740.0	4854.2	4324.1	4307.7	4511.8	4957.4
47.5°	5528.9	5574.3	5929.2	6427.2	6620.3	6281.0	5507.1	4985.6	5017.6	5285.0	5513.3
50°	5583.7	5602.4	5794.7	6313.9	6697.7	6677.4	6236.4	5751.7	5861.2	6195.0	6142.6
52.5°	5575.8	5624.3	5779.1	6127.8	6707.9	6922.1	6954.9	6606.2	6836.9	7220.0	6840.8
55°	4507.8	4597.0	5595.3	6080.8	6743.8	7162.1	7594.4	7506.8	7936.9	8383.3	7628.9
57.5°	4304.6	4360.9	4914.5	6179.3	6934.6	7620.3	8305.8	8498.2	9217.4	9735.8	8588.9
60°	4264.7	4334.3	4907.4	6299.7	7321.6	8366.8	9360.5	9698.3	10775.6	11343.2	9702.2
62.5°	4140.4	4215.5	4861.3	6284.1	7871.2	9399.6	10710.7	10974.1	12253.2	12805.1	10633.3
65°	3746.4	3816.7	4485.2	6031.6	8241.8	10501.9	12308.7	12143.8	13419.7	13834.8	11097.7
66°	3476.7	3545.4	4188.9	5734.6	8155.8	10814.6	12874.8	12505.7	13680.7	14006.0	11007.0
67.5°	2983.3	3037.3	3613.5	5069.2	7698.4	10902.2	13350.8	12777.8	13708.2	13823.0	10488.6
70°	1884.9	1900.5	2348.5	3499.3	5827.5	9455.1	12626.1	12102.3	12577.6	12266.5	8793.0
72.5°	817.7	812.3	1127.4	1780.1	3299.2	6344.3	10213.4	9985.9	9866.4	9156.4	6155.1
75°	455.0	461.2	585.5	826.3	1340.8	3116.2	6681.3	6393.5	5398.3	4606.3	2791.0
77.5°	365.1	373.7	485.5	586.4	602.0	1086.7	3126.4	2544.0	1531.6	1229.0	775.5
80°	288.5	304.1	423.7	456.5	405.8	448.0	1010.1	807.6	605.9	555.9	401.8
82.5°	228.3	239.3	363.6	345.6	283.8	301.8	484.0	471.5	394.0	358.9	232.2
85°	164.2	184.5	298.6	260.3	186.1	203.3	321.3	308.0	226.0	184.5	102.4
87.5°	67.2	87.6	211.1	172.8	103.9	94.6	160.3	150.9	107.1	78.2	50.8
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°	2357.9	2357.9	2357.9	2357.9	2357.9	2357.9	2357.9	2357.9	2357.9	2357.9	2357.9
2.5°	2355.5	2374.4	2398.6	2413.4	2421.2	2426.7	2435.3	2434.5	2436.9	2437.7	2440.8
5°	2371.2	2402.5	2437.7	2447.0	2447.0	2438.4	2429.8	2415.8	2410.3	2408.7	2410.3
7.5°	2411.8	2446.3	2476.8	2465.8	2442.4	2407.9	2363.4	2324.3	2303.2	2296.1	2294.6
10°	2463.5	2504.9	2517.4	2476.0	2407.2	2324.3	2236.0	2171.8	2135.1	2125.0	2121.8
12.5°	2526.0	2565.0	2547.9	2460.3	2332.9	2199.2	2077.2	1974.8	1898.2	1873.9	1872.4
15°	2594.8	2625.3	2565.0	2411.8	2221.8	2024.8	1807.6	1630.9	1535.4	1505.0	1502.6
17.5°	2659.0	2674.5	2554.9	2327.4	2058.5	1739.5	1451.1	1315.0	1282.2	1289.9	1291.6
20°	2713.7	2713.7	2520.6	2206.2	1801.3	1363.5	1181.3	1179.0	1202.4	1225.9	1230.5
22.5°	2773.8	2737.8	2460.3	2035.1	1436.9	1115.6	1089.0	1110.9	1137.5	1163.3	1167.2
25°	2848.1	2757.5	2376.7	1775.4	1129.7	1013.2	1023.4	1041.4	1054.7	1071.0	1073.4
27.5°	2931.0	2782.4	2266.4	1418.2	980.4	949.1	957.0	963.2	961.6	967.9	969.5
30°	3030.3	2811.4	2115.6	1108.6	918.6	894.4	880.4	874.8	874.8	885.0	888.9
32.5°	3163.2	2854.3	1899.0	949.9	888.9	855.3	810.0	789.6	797.4	831.9	839.6
35°	3309.3	2900.5	1605.8	895.9	882.7	837.3	766.9	729.5	730.2	762.3	772.4
37.5°	3468.8	2959.1	1284.5	885.8	896.7	838.1	744.3	692.6	671.6	671.6	675.5
40°	3672.9	3019.3	1039.8	892.8	926.5	847.5	732.5	663.8	604.4	605.9	609.1
42.5°	3938.8	3070.9	908.5	907.7	962.4	860.0	731.7	625.4	573.9	609.1	641.1
45°	4234.2	3096.7	850.6	921.0	991.3	867.8	719.2	619.2	577.8	682.5	743.5
47.5°	4574.3	3081.8	818.6	925.7	998.4	867.8	705.2	634.0	605.1	790.4	861.5
50°	4947.3	3038.9	787.3	916.3	996.0	866.2	718.5	648.9	615.3	809.2	858.5
52.5°	5385.8	3002.9	754.4	895.9	979.6	857.6	734.1	642.6	583.2	735.7	770.1
55°	5886.2	3013.1	717.7	867.1	953.8	841.2	728.6	617.7	549.6	648.1	669.2
57.5°	6525.7	3134.2	673.9	830.2	918.6	813.9	709.1	605.9	539.4	587.9	600.5
60°	7239.5	3345.4	619.2	793.5	874.8	770.1	694.3	611.4	544.1	583.2	589.5
62.5°	7763.3	3468.1	572.2	739.6	815.4	721.6	675.5	618.4	556.7	599.7	598.1
65°	7905.6	3266.4	513.6	660.6	734.9	670.7	652.0	626.3	562.1	613.0	605.9
66°	7706.2	3049.0	487.8	623.9	694.3	645.8	640.3	625.4	559.8	614.5	602.7
67.5°	7222.3	2603.4	443.2	569.9	629.3	608.2	621.5	618.4	553.5	613.0	596.5
70°	5890.2	1776.3	379.2	474.5	523.9	535.5	585.5	593.4	533.2	585.5	549.6
72.5°	4115.4	1082.0	335.4	368.3	423.7	456.5	536.3	558.9	505.8	511.3	476.9
75°	1988.9	574.6	304.1	285.4	329.2	381.6	476.9	512.1	462.8	427.7	415.1
77.5°	620.0	351.1	258.0	229.9	258.0	308.0	398.7	448.8	412.0	358.0	353.3
80°	333.1	258.0	198.6	184.5	204.1	241.6	313.5	374.5	354.1	321.3	286.9
82.5°	219.7	167.4	147.0	143.1	155.6	184.5	233.0	310.4	310.4	275.2	200.2
85°	113.3	102.4	100.9	100.9	108.6	122.8	158.7	239.3	254.8	145.5	120.4
87.5°	56.3	58.6	54.7	57.1	61.0	60.1	75.8	120.4	143.8	88.4	73.4
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)