

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: P192281

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192281
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-03-LED-E1-T3R-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15011 lumens
Efficiency: N/A
Efficacy: 121.1 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): 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

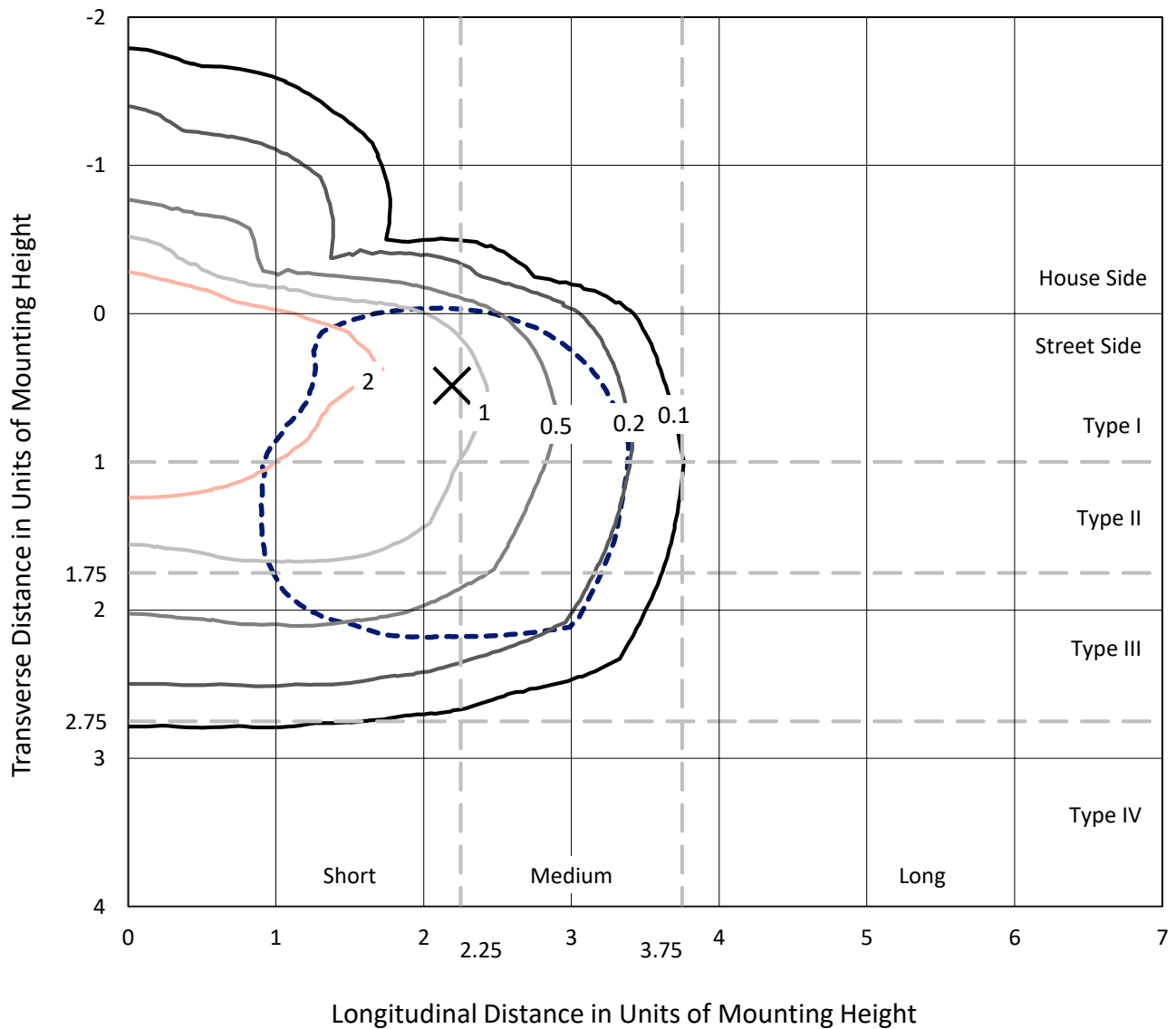


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

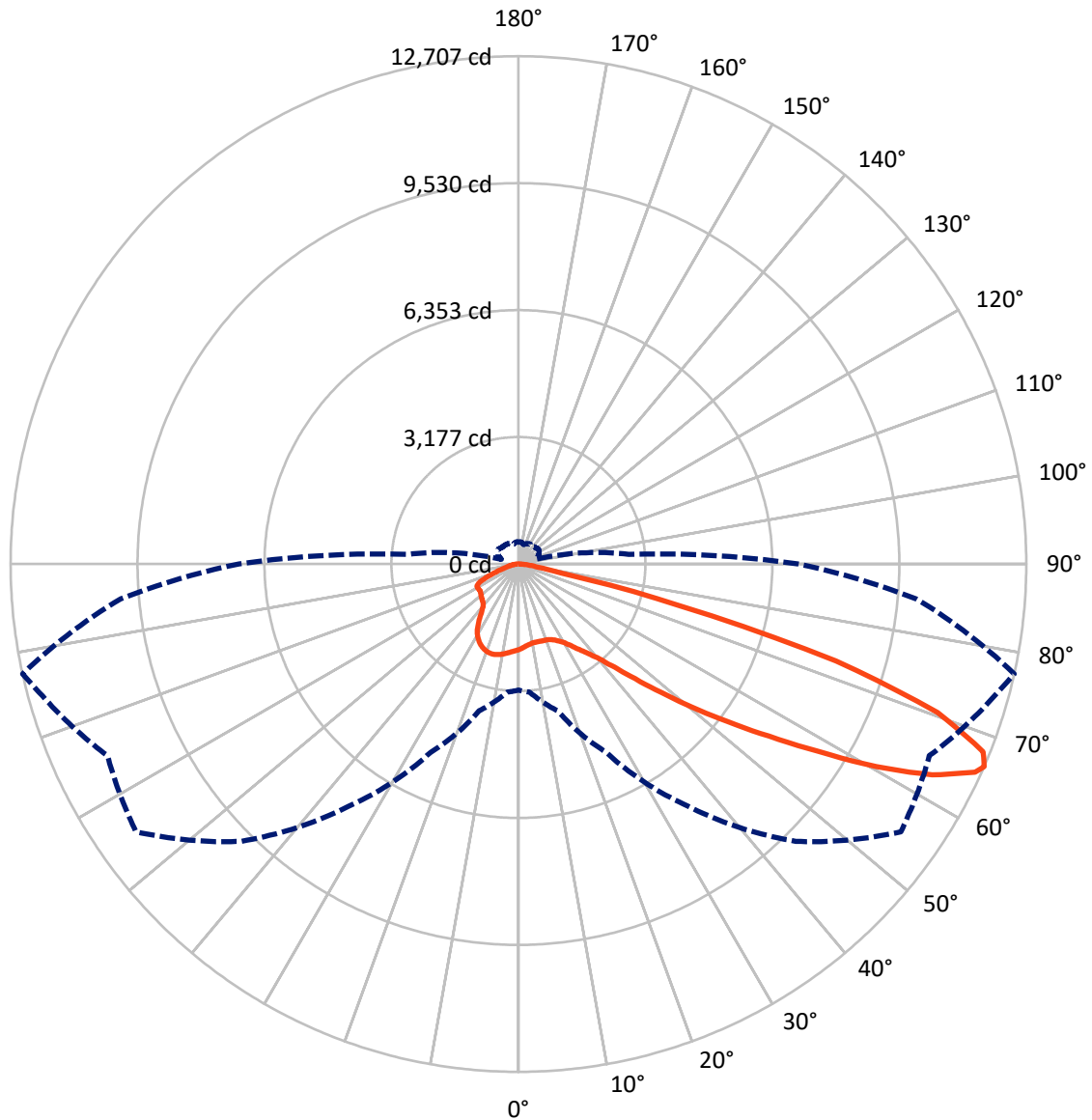


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - Full Cutoff

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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	2564.5	0.0	2564.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	12446.5	0.0	12446.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	15011.0	0.0	15011.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	1.3
10°-20°	539.2	3.6
20°-30°	920.2	6.1
30°-40°	1473.0	9.8
40°-50°	2275.7	15.2
50°-60°	3227.7	21.5
60°-70°	4317.8	28.8
70°-80°	1875.1	12.5
80°-90°	191.2	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°	15011.0	100.0
0°-180°	15011.0	100.0



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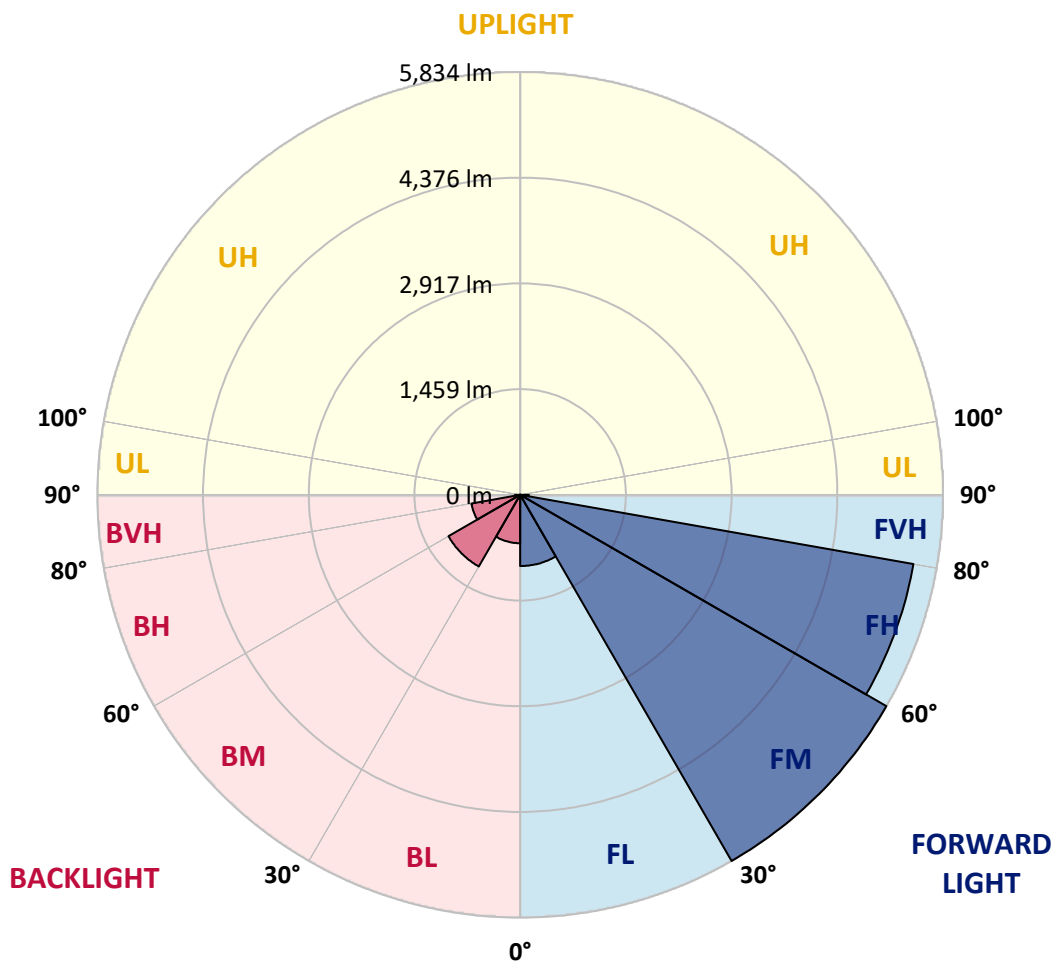
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	982.5	6.5			
FM	(30°-60°)	5834.1	38.9			
FH	(60°-80°)	5509.9	36.7			G3/7500
FVH	(80°-90°)	119.9	0.8			G2/225
BL	(0°-30°)	667.9	4.4	B2/1000		
BM	(30°-60°)	1142.4	7.6	B2/2500		
BH	(60°-80°)	683.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	71.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1
2.5°	1892.3	1905.1	1915.7	1925.7	1945.5	1978.1	2015.7	2046.2	2090.2	2098.7	2122.1
5°	1718.5	1718.5	1727.1	1742.0	1768.9	1817.8	1868.9	1937.0	2032.7	2055.4	2117.9
7.5°	1634.1	1634.9	1639.8	1652.6	1676.0	1720.7	1776.7	1856.9	1986.6	2024.2	2130.6
10°	1665.4	1658.3	1647.6	1641.2	1644.8	1671.0	1724.2	1813.6	1958.3	2006.5	2159.0
12.5°	1839.8	1826.4	1789.5	1740.5	1693.7	1674.6	1705.8	1793.0	1946.2	2002.3	2196.6
15°	2125.0	2119.3	2050.5	1949.1	1835.6	1740.5	1719.3	1785.2	1947.6	2007.2	2241.3
17.5°	2482.4	2474.6	2383.8	2236.3	2051.2	1866.1	1766.8	1791.6	1952.6	2015.7	2284.5
20°	2843.4	2819.3	2721.4	2545.5	2307.9	2037.0	1845.5	1807.9	1959.0	2024.9	2329.9
22.5°	3113.0	3093.1	3005.1	2834.2	2560.4	2234.9	1951.2	1836.3	1979.6	2051.9	2386.0
25°	3349.9	3351.3	3264.0	3098.8	2815.8	2444.8	2087.4	1912.2	2032.0	2107.2	2462.6
27.5°	3642.8	3625.8	3544.2	3380.4	3068.3	2656.9	2251.9	2016.4	2110.1	2186.0	2563.3
30°	3993.2	3981.1	3886.8	3700.9	3348.4	2884.6	2439.9	2137.7	2210.8	2289.5	2695.2
32.5°	4405.2	4399.6	4301.7	4062.7	3671.9	3152.7	2660.4	2298.0	2361.1	2442.7	2884.6
35°	4889.0	4889.7	4774.1	4486.8	4025.8	3464.8	2910.8	2504.4	2544.1	2629.2	3110.1
37.5°	5186.8	5223.0	5179.8	4886.8	4426.5	3813.7	3235.7	2778.2	2752.7	2838.5	3352.0
40°	5250.7	5294.7	5431.5	5282.6	4874.8	4198.1	3523.6	3041.3	3009.4	3114.4	3663.3
42.5°	5161.3	5222.3	5511.7	5616.7	5350.7	4671.9	3910.9	3432.1	3391.7	3532.8	4050.6
45°	5108.1	5153.5	5488.3	5790.4	5763.5	5207.4	4403.8	3922.9	3908.0	4093.2	4497.4
47.5°	5015.9	5057.0	5379.1	5830.9	6006.0	5698.2	4996.1	4523.0	4552.1	4794.6	5001.7
50°	5065.6	5082.6	5257.1	5728.0	6076.3	6057.8	5657.8	5218.1	5317.3	5620.2	5572.7
52.5°	5058.5	5102.4	5242.9	5559.2	6085.5	6279.8	6309.6	5993.3	6202.5	6550.0	6206.1
55°	4089.6	4170.5	5076.2	5516.7	6118.1	6497.6	6889.8	6810.3	7200.4	7605.4	6921.0
57.5°	3905.2	3956.3	4458.4	5606.0	6291.2	6913.2	7535.2	7709.7	8362.2	8832.5	7792.0
60°	3869.0	3932.2	4452.0	5715.2	6642.3	7590.5	8492.0	8798.4	9775.8	10290.7	8802.0
62.5°	3756.3	3824.3	4410.2	5701.1	7140.9	8527.5	9716.9	9955.9	11116.3	11617.0	9646.7
65°	3398.8	3462.6	4069.0	5472.0	7477.1	9527.5	11166.6	11017.0	12174.5	12551.1	10068.0
66°	3154.1	3216.5	3800.2	5202.4	7399.0	9811.2	11680.2	11345.4	12411.4	12706.5	9985.7
67.5°	2706.5	2755.5	3278.2	4598.9	6984.1	9890.7	12112.1	11592.2	12436.2	12540.5	9515.5
70°	1710.0	1724.2	2130.6	3174.7	5286.9	8577.8	11454.6	10979.4	11410.6	11128.3	7977.1
72.5°	741.9	736.9	1022.8	1615.0	2993.1	5755.7	9265.8	9059.4	8950.9	8306.9	5584.0
75°	412.8	418.5	531.2	749.7	1216.4	2827.1	6061.4	5800.4	4897.5	4179.0	2532.1
77.5°	331.2	339.0	440.5	531.9	546.1	985.9	2836.3	2307.9	1389.4	1115.0	703.6
80°	261.7	275.9	384.4	414.2	368.1	406.4	916.4	732.7	549.7	504.3	364.6
82.5°	207.1	217.0	329.8	313.5	257.5	273.8	439.0	427.7	357.5	325.6	210.7
85°	148.9	167.4	270.9	236.2	168.8	184.4	291.5	279.4	205.0	167.4	92.9
87.5°	61.0	79.4	191.5	156.7	94.3	85.8	145.4	136.9	97.2	70.9	46.1
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°	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1
2.5°	2137.0	2154.0	2176.0	2189.5	2196.6	2201.6	2209.4	2208.6	2210.8	2211.5	2214.3
5°	2151.2	2179.6	2211.5	2220.0	2220.0	2212.2	2204.4	2191.6	2186.7	2185.2	2186.7
7.5°	2188.1	2219.3	2246.9	2237.0	2215.7	2184.5	2144.1	2108.6	2089.5	2083.1	2081.7
10°	2234.9	2272.5	2283.8	2246.2	2183.8	2108.6	2028.5	1970.3	1937.0	1927.8	1924.9
12.5°	2291.6	2327.1	2311.5	2232.1	2116.4	1995.2	1884.5	1791.6	1722.1	1700.1	1698.7
15°	2354.0	2381.7	2327.1	2188.1	2015.7	1837.0	1639.8	1479.5	1393.0	1365.3	1363.2
17.5°	2412.2	2426.4	2317.9	2111.5	1867.5	1578.1	1316.4	1193.0	1163.2	1170.3	1171.7
20°	2461.9	2461.9	2286.7	2001.5	1634.1	1237.0	1071.7	1069.6	1090.8	1112.1	1116.4
22.5°	2516.5	2483.8	2232.1	1846.2	1303.6	1012.1	988.0	1007.9	1032.0	1055.4	1058.9
25°	2583.8	2501.6	2156.2	1610.7	1024.9	919.2	928.4	944.7	956.8	971.7	973.8
27.5°	2659.0	2524.3	2056.2	1286.6	889.4	861.0	868.1	873.8	872.4	878.1	879.5
30°	2749.1	2550.5	1919.3	1005.7	833.4	811.4	798.6	793.7	793.7	802.9	806.4
32.5°	2869.7	2589.5	1722.8	861.8	806.4	775.9	734.8	716.4	723.4	754.7	761.7
35°	3002.3	2631.4	1456.8	812.8	800.8	759.6	695.8	661.7	662.5	691.5	700.8
37.5°	3147.0	2684.6	1165.3	803.6	813.5	760.3	675.2	628.4	609.3	609.3	612.8
40°	3332.1	2739.2	943.3	810.0	840.5	768.8	664.6	602.2	548.3	549.7	552.5
42.5°	3573.3	2786.0	824.2	823.5	873.1	780.2	663.9	567.4	520.6	552.5	581.6
45°	3841.4	2809.4	771.7	835.5	899.3	787.3	652.5	561.7	524.1	619.2	674.5
47.5°	4149.9	2795.9	742.6	839.8	905.7	787.3	639.8	575.2	549.0	717.1	781.6
50°	4488.2	2756.9	714.2	831.3	903.6	785.9	651.8	588.7	558.2	734.1	778.8
52.5°	4886.1	2724.3	684.4	812.8	888.7	778.1	666.0	583.0	529.1	667.4	698.6
55°	5340.0	2733.5	651.1	786.6	865.3	763.2	661.0	560.3	498.6	588.0	607.1
57.5°	5920.2	2843.4	611.4	753.2	833.4	738.3	643.3	549.7	489.4	533.4	544.7
60°	6567.8	3034.9	561.7	719.9	793.7	698.6	629.8	554.6	493.6	529.1	534.8
62.5°	7043.0	3146.3	519.2	671.0	739.8	654.7	612.8	561.0	505.0	544.0	542.6
65°	7172.1	2963.3	466.0	599.3	666.7	608.5	591.5	568.1	510.0	556.1	549.7
66°	6991.2	2766.1	442.6	566.0	629.8	585.9	580.9	567.4	507.8	557.5	546.8
67.5°	6552.2	2361.8	402.2	517.1	571.0	551.8	563.9	561.0	502.2	556.1	541.2
70°	5343.6	1611.4	344.0	430.5	475.2	485.8	531.2	538.3	483.7	531.2	498.6
72.5°	3733.6	981.6	304.3	334.1	384.4	414.2	486.6	507.1	458.9	463.9	432.7
75°	1804.4	521.3	275.9	258.9	298.6	346.1	432.7	464.6	419.9	388.0	376.6
77.5°	562.4	318.5	234.1	208.5	234.1	279.4	361.7	407.1	373.8	324.8	320.6
80°	302.1	234.1	180.2	167.4	185.1	219.2	284.4	339.7	321.3	291.5	260.3
82.5°	199.3	151.8	133.3	129.8	141.1	167.4	211.4	281.6	281.6	249.7	181.6
85°	102.8	92.9	91.5	91.5	98.6	111.4	144.0	217.0	231.2	131.9	109.2
87.5°	51.1	53.2	49.6	51.8	55.3	54.6	68.8	109.2	130.5	80.1	66.7
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)