

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: P193802

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20424 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 258
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

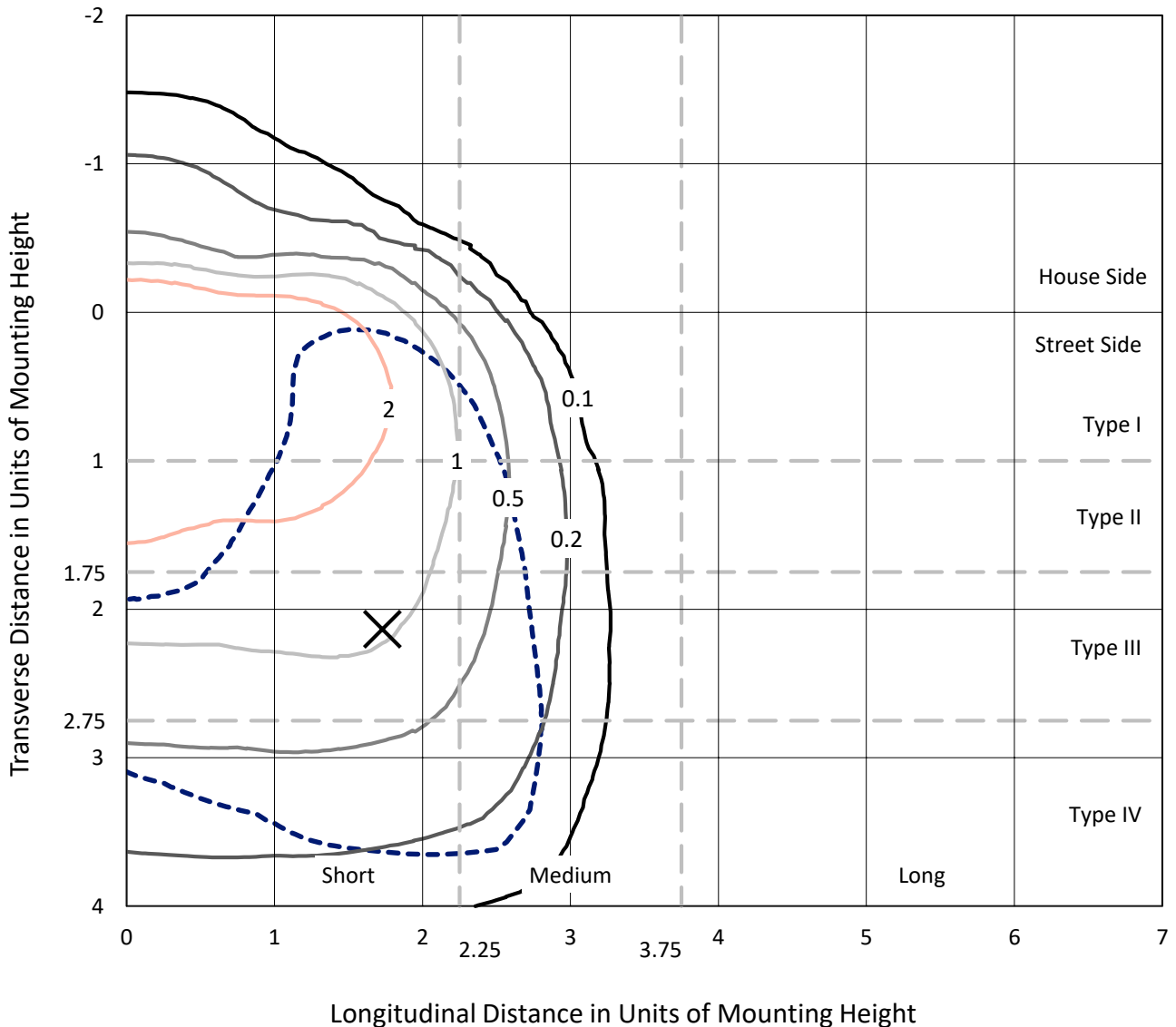


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

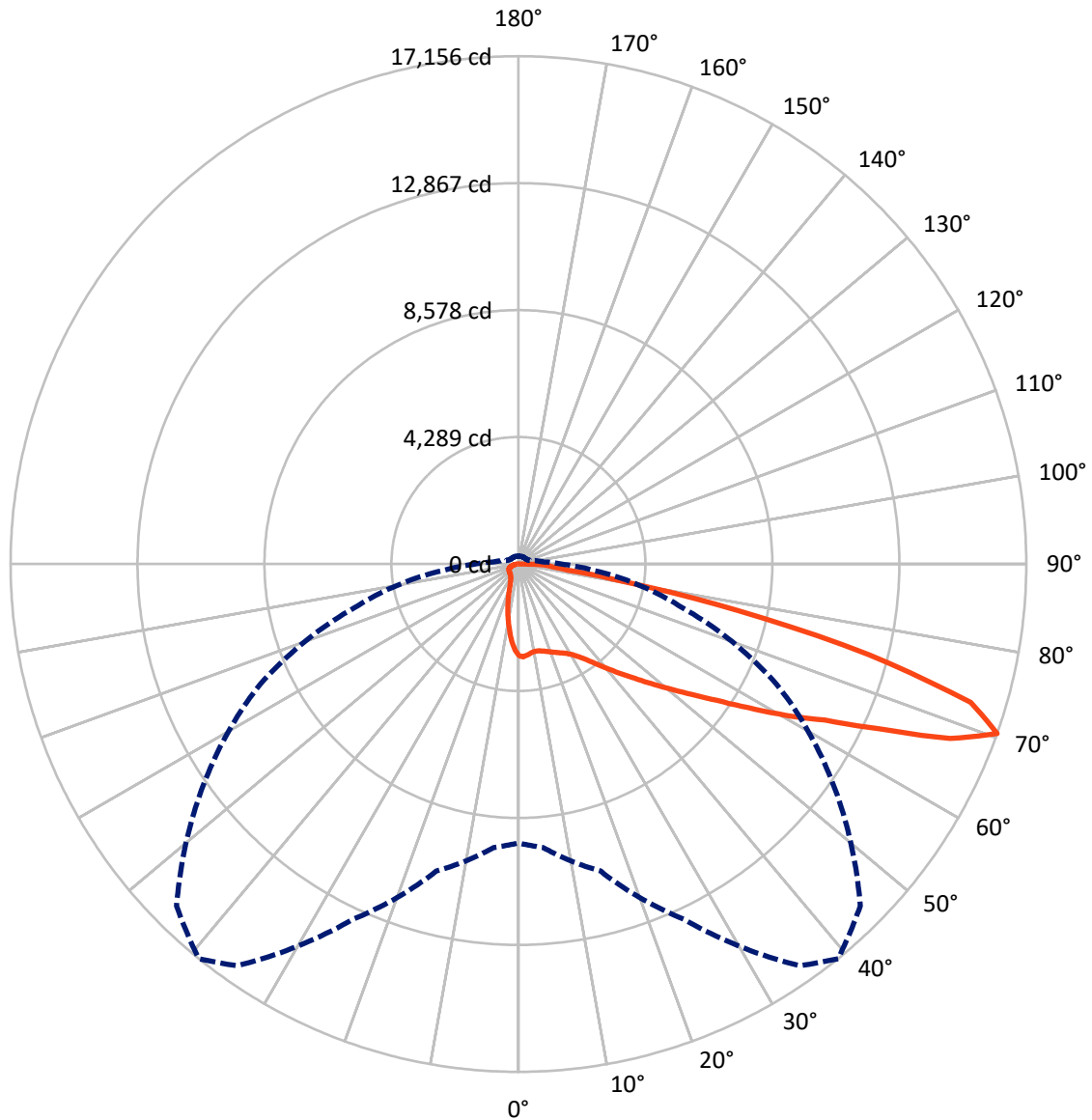


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2322.9	0.0	2322.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	18101.1	0.0	18101.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	20424.0	0.0	20424.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	1.3
10°-20°	665.1	3.3
20°-30°	1035.6	5.1
30°-40°	1613.4	7.9
40°-50°	2708.5	13.3
50°-60°	4302.7	21.1
60°-70°	5739.4	28.1
70°-80°	3465.9	17.0
80°-90°	627.3	3.1
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°	20424.0	100.0
0°-180°	20424.0	100.0



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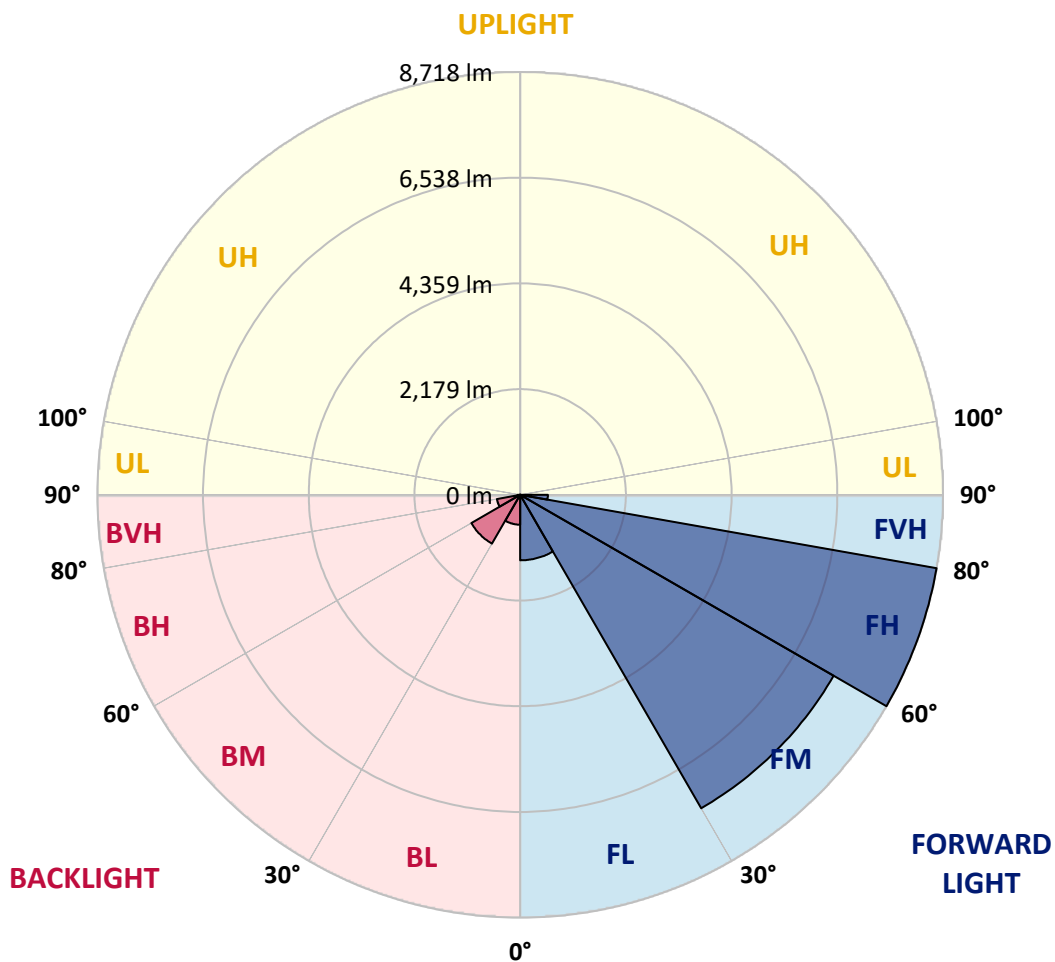
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1350.7	6.6			
FM	(30°-60°)	7462.1	36.5			
FH	(60°-80°)	8717.6	42.7			G4/12000
FVH	(80°-90°)	570.7	2.8			G4/750
BL	(0°-30°)	616.2	3.0	B2/1000		
BM	(30°-60°)	1162.5	5.7	B2/2500		
BH	(60°-80°)	487.7	2.4	B1/500		G1/500
BVH	(80°-90°)	56.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7
2.5°	3160.9	3159.9	3151.6	3145.3	3140.1	3138.1	3142.2	3126.6	3113.1	3096.5	3078.9
5°	3137.0	3136.0	3122.5	3110.0	3097.6	3093.4	3092.4	3064.3	3047.7	3022.8	2989.6
7.5°	3111.1	3105.9	3088.2	3067.5	3045.6	3035.3	3024.9	2988.5	2969.8	2944.9	2906.5
10°	3084.1	3077.8	3061.2	3040.5	3019.7	3004.1	2986.5	2951.1	2931.4	2912.7	2868.1
12.5°	3056.0	3050.8	3046.7	3037.3	3022.8	3009.3	2995.8	2965.7	2944.9	2923.1	2871.2
15°	3051.9	3049.8	3059.1	3065.4	3057.1	3048.8	3034.2	3008.3	2986.5	2964.6	2897.2
17.5°	3085.1	3084.1	3107.9	3124.6	3120.4	3105.9	3086.1	3057.1	3039.4	3020.7	2936.6
20°	3157.8	3163.0	3192.1	3213.9	3193.1	3172.3	3140.1	3099.6	3090.3	3082.0	2977.1
22.5°	3294.9	3300.1	3320.8	3329.1	3275.1	3245.0	3200.4	3148.4	3142.2	3148.4	3025.9
25°	3508.8	3503.6	3500.5	3469.3	3370.7	3323.9	3266.8	3212.8	3215.9	3244.0	3094.4
27.5°	3792.3	3764.2	3720.6	3627.2	3470.4	3418.4	3348.9	3299.0	3318.7	3372.7	3197.3
30°	4086.1	4055.0	3954.2	3801.6	3601.2	3544.1	3466.2	3410.1	3462.0	3547.2	3334.3
32.5°	4358.2	4354.0	4206.6	4010.3	3781.9	3732.0	3654.2	3590.8	3674.9	3804.7	3539.9
35°	4655.2	4664.5	4488.0	4252.3	4025.9	3974.0	3917.9	3870.1	3982.3	4160.9	3837.9
37.5°	4972.9	4991.6	4782.9	4517.1	4304.2	4282.4	4249.2	4228.4	4401.8	4648.9	4254.3
40°	5397.6	5378.9	5089.2	4816.1	4645.8	4644.8	4634.4	4659.3	4948.0	5286.5	4789.1
42.5°	5852.5	5797.4	5414.2	5137.0	5020.7	5056.0	5076.8	5178.5	5605.3	6061.2	5441.2
45°	6342.6	6219.0	5751.7	5476.6	5437.1	5511.9	5582.5	5803.7	6378.9	6942.8	6155.7
47.5°	6734.1	6614.6	6100.6	5832.7	5918.9	6032.1	6168.1	6518.1	7245.0	7853.5	6860.7
50°	7042.5	6964.6	6452.7	6248.1	6449.5	6624.0	6846.2	7327.0	8146.3	8740.3	7513.9
52.5°	7341.5	7283.4	6807.8	6673.8	7072.6	7313.5	7615.7	8195.1	9070.5	9612.5	8063.2
55°	7611.5	7570.0	7189.9	7204.5	7805.7	8119.3	8499.4	9183.7	10077.7	10390.3	8528.4
57.5°	7915.8	7862.8	7626.1	7870.1	8747.5	9154.6	9648.9	10294.8	11022.7	11081.9	8882.5
60°	8222.1	8176.4	8109.9	8638.5	9943.8	10371.6	10839.9	11371.6	11981.1	11618.7	8861.8
62.5°	8487.9	8493.1	8610.5	9445.3	11115.1	11610.4	12181.5	12707.0	12848.2	11712.2	8206.5
65°	8938.6	9020.6	9370.6	10587.6	12764.1	13426.6	14127.5	14043.4	13088.1	10838.9	6801.6
67.5°	9474.4	9618.8	10328.0	12109.9	14848.2	15727.7	15998.7	14345.6	12127.5	8810.9	4848.3
70°	9420.4	9618.8	10741.3	13244.9	16565.7	17155.5	16333.1	12983.2	9630.2	5755.9	2575.2
72.5°	8365.4	8648.9	9899.1	12724.6	16024.7	15972.8	14179.4	9679.0	5721.6	2311.5	1006.2
75°	6375.8	6662.4	7738.2	10052.8	12665.4	12229.3	10061.1	5346.8	2171.3	918.0	634.5
77.5°	3667.6	3889.9	4720.6	6165.0	8035.2	7587.6	5600.1	2377.9	1057.1	639.7	495.3
80°	2047.7	2171.3	2676.0	3127.7	3937.6	3609.5	2505.7	1477.7	789.2	464.2	382.1
82.5°	1618.9	1728.9	2164.0	1973.0	1798.5	1659.4	1439.2	1315.7	630.3	292.8	228.4
85°	1414.3	1519.2	1831.7	1553.5	1228.4	1126.7	1169.2	1294.9	490.1	176.5	195.2
87.5°	1310.5	1450.7	1632.4	1197.3	956.4	847.3	1078.9	1419.5	157.8	110.1	78.9
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°	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7
2.5°	3063.3	3046.7	3019.7	2995.8	2958.4	2938.7	2916.9	2901.3	2888.8	2878.5	2895.1
5°	2968.8	2937.7	2880.5	2819.3	2746.6	2689.5	2641.7	2597.1	2565.9	2545.1	2559.7
7.5°	2879.5	2828.6	2739.3	2628.2	2503.6	2397.7	2310.5	2233.6	2180.7	2146.4	2159.9
10°	2828.6	2765.3	2627.2	2452.7	2268.9	2103.8	1966.7	1848.4	1766.3	1719.6	1726.9
12.5°	2816.2	2734.1	2543.1	2303.2	2051.9	1822.4	1629.3	1465.2	1349.9	1289.7	1291.8
15°	2825.5	2720.6	2464.1	2159.9	1842.1	1552.4	1311.5	1112.1	978.2	909.6	908.6
17.5°	2841.1	2710.2	2381.1	2005.2	1629.3	1292.8	1023.9	828.6	710.3	655.2	651.1
20°	2857.7	2693.6	2287.6	1838.0	1408.1	1051.9	801.6	649.0	574.2	544.1	542.0
22.5°	2881.6	2679.1	2191.0	1661.4	1191.1	856.7	659.4	556.6	517.1	501.6	499.5
25°	2920.0	2671.8	2088.2	1477.7	995.8	716.5	574.2	510.9	488.1	477.7	476.6
27.5°	2984.4	2682.2	1991.7	1299.0	837.0	622.0	526.5	488.1	471.4	462.1	461.1
30°	3067.5	2714.4	1889.9	1129.8	713.4	557.6	497.4	472.5	459.0	449.6	449.6
32.5°	3205.6	2768.4	1782.9	983.4	625.1	513.0	475.6	459.0	447.6	440.3	439.2
35°	3409.1	2870.2	1683.3	861.9	561.8	480.8	456.9	444.4	436.1	432.0	432.0
37.5°	3705.0	3031.1	1595.0	774.7	523.4	459.0	439.2	429.9	424.7	424.7	424.7
40°	4102.7	3253.3	1523.3	716.5	501.6	443.4	425.7	418.5	415.4	416.4	416.4
42.5°	4593.9	3542.0	1475.6	676.0	491.2	434.1	416.4	410.2	407.1	406.0	407.1
45°	5153.6	3870.1	1470.4	645.9	480.8	427.8	410.2	403.9	397.7	393.6	393.6
47.5°	5697.7	4203.5	1513.0	635.5	469.4	420.6	405.0	398.7	389.4	380.1	380.1
50°	6178.5	4487.0	1570.1	639.7	465.2	410.2	396.7	393.6	379.0	368.6	367.6
52.5°	6560.6	4705.0	1616.8	652.1	469.4	402.9	386.3	387.3	371.7	360.3	359.3
55°	6867.0	4848.3	1604.3	664.6	478.7	398.7	376.9	379.0	366.6	355.1	355.1
57.5°	7000.9	4795.4	1466.2	654.2	486.0	399.8	369.7	378.0	367.6	357.2	357.2
60°	6713.3	4325.0	1207.7	608.5	476.6	396.7	366.6	382.1	381.1	370.7	369.7
62.5°	5843.1	3482.8	936.6	541.0	444.4	381.1	358.3	381.1	392.5	389.4	388.4
65°	4503.6	2480.8	715.5	468.3	400.8	355.1	336.4	357.2	372.8	376.9	375.9
67.5°	2923.1	1520.2	551.4	399.8	352.0	325.0	308.4	317.8	320.9	320.9	318.8
70°	1437.2	818.3	439.2	336.4	302.2	292.8	283.5	278.3	273.1	268.9	268.9
72.5°	709.2	534.8	361.4	284.5	260.6	256.5	254.4	248.2	244.0	238.8	236.8
75°	524.4	435.1	307.4	239.9	224.3	220.1	224.3	219.1	218.1	213.9	211.8
77.5°	430.9	370.7	264.8	205.6	192.1	184.8	191.1	192.1	193.1	186.9	184.8
80°	349.9	313.6	221.2	170.3	157.8	152.6	156.8	165.1	167.2	157.8	153.7
82.5°	252.3	256.5	178.6	132.9	122.5	118.4	126.7	137.1	139.1	125.6	122.5
85°	211.8	213.9	137.1	94.5	84.1	77.9	91.4	101.8	109.0	95.5	92.4
87.5°	88.3	125.6	78.9	53.0	46.7	40.5	48.8	54.0	65.4	60.2	59.2
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)