

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: P191885

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL2-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33324 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

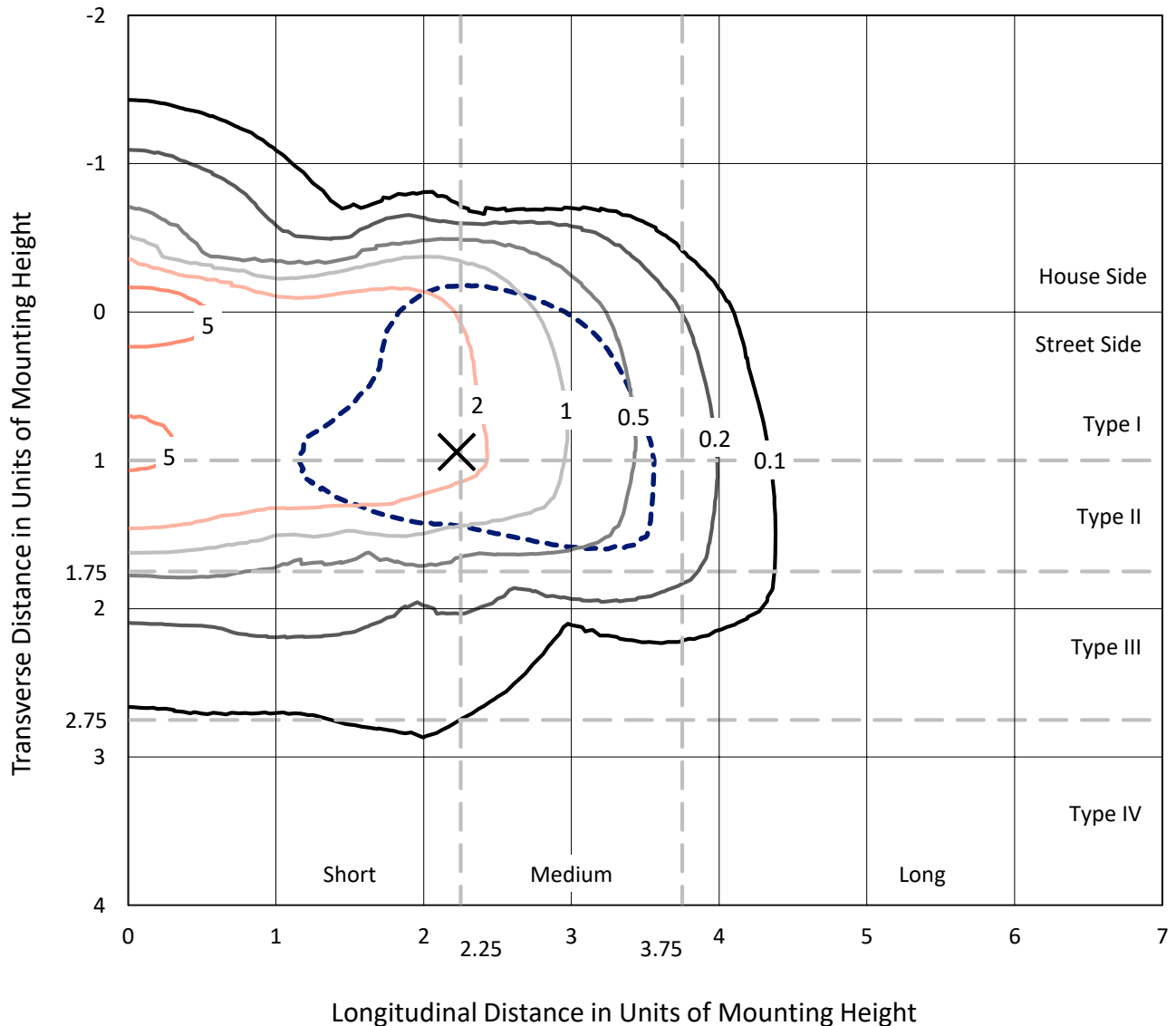
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

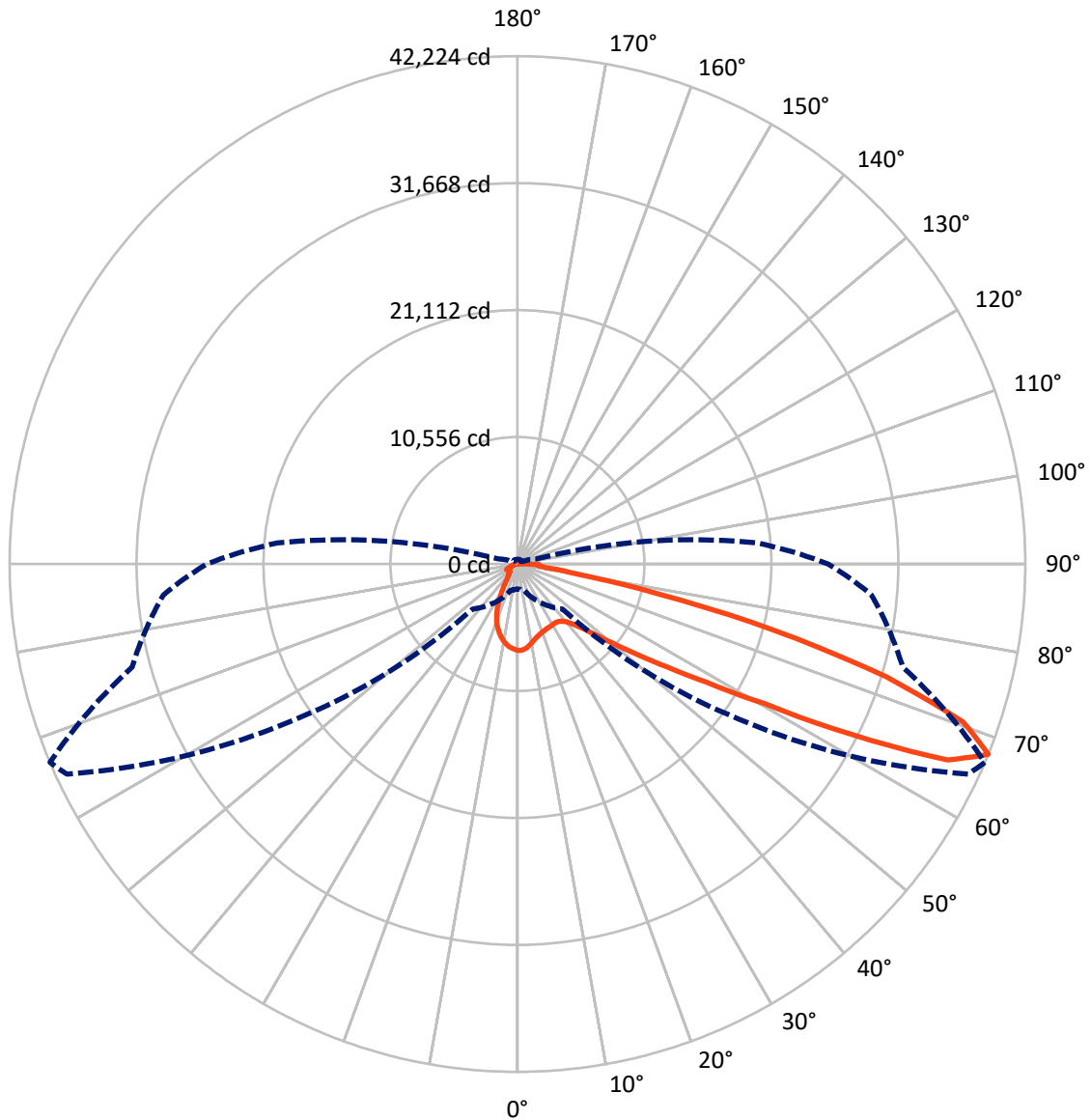
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5521.4	0.0	5521.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	27802.6	0.0	27802.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	33324.0	0.0	33324.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.2	1.8
10°-20°	1418.9	4.3
20°-30°	1923.4	5.8
30°-40°	2734.3	8.2
40°-50°	4574.6	13.7
50°-60°	7237.0	21.7
60°-70°	9219.2	27.7
70°-80°	4829.0	14.5
80°-90°	774.5	2.3
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°	33324.0	100.0
0°-180°	33324.0	100.0



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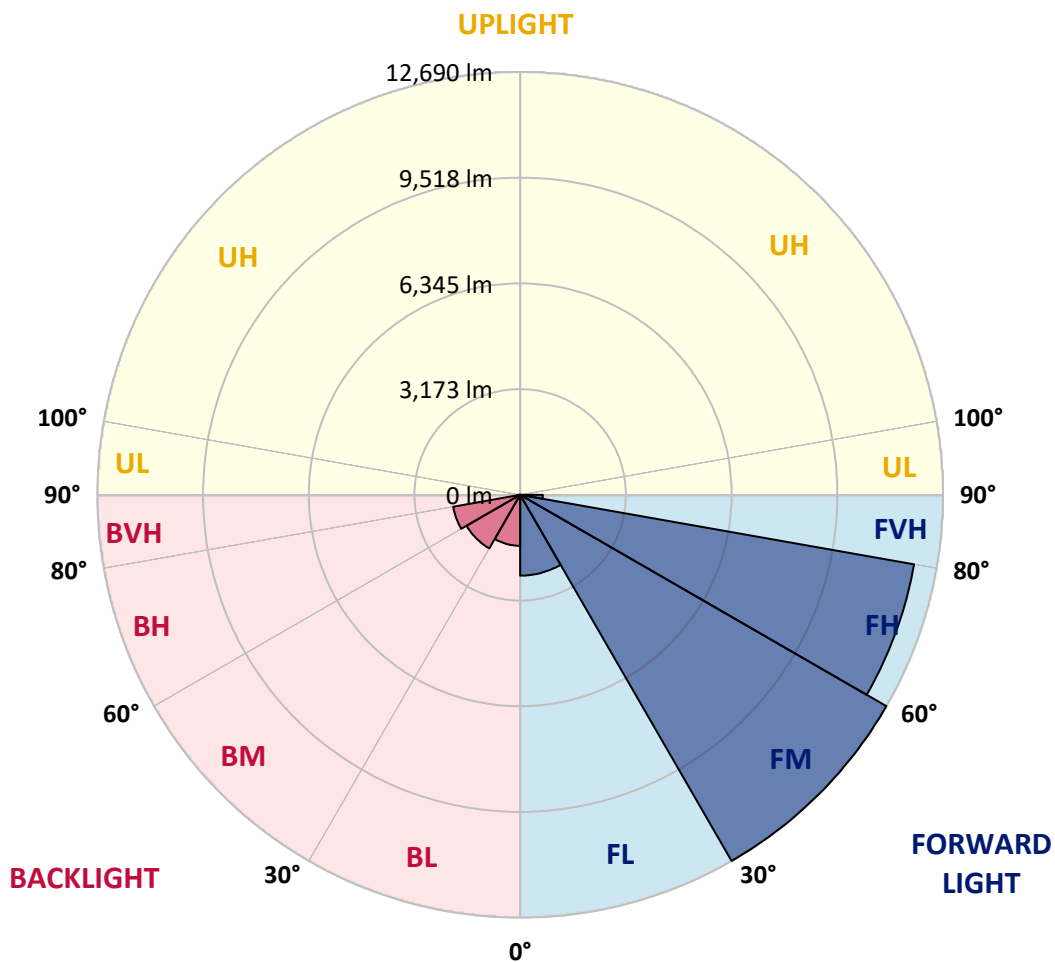
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.2	7.3			
FM (30°-60°)	12690.5	38.1			
FH (60°-80°)	12005.9	36.0			G5
FVH (80°-90°)	681.0	2.0			G4/750
BL (0°-30°)	1530.4	4.6	B3/2500		
BM (30°-60°)	1855.4	5.6	B2/2500		
BH (60°-80°)	2042.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	93.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7187.9	7187.9	7187.9	7187.9	7187.9	7187.9	7187.9	7187.9	7187.9	7187.9	7187.9
2.5°	6892.1	6903.6	6939.8	6962.8	7066.3	7110.7	7141.9	7173.1	7178.0	7192.8	7178.0
5°	6169.0	6193.7	6261.1	6336.7	6537.1	6694.9	6860.9	7033.4	7064.7	7176.4	7207.6
7.5°	5608.7	5602.1	5658.0	5748.4	5953.8	6172.3	6463.2	6806.7	6874.0	7125.5	7247.1
10°	5199.5	5194.6	5253.7	5347.4	5542.9	5750.0	6078.7	6548.7	6644.0	7044.9	7284.9
12.5°	4897.1	4898.8	4957.9	5061.4	5260.3	5469.0	5802.6	6298.9	6420.5	6951.3	7324.3
15°	4696.6	4709.8	4757.4	4867.5	5061.4	5270.1	5597.2	6111.5	6247.9	6877.3	7368.7
17.5°	4629.2	4650.6	4667.0	4747.6	4913.5	5122.2	5442.7	5973.5	6118.1	6826.4	7408.1
20°	4691.7	4716.3	4685.1	4713.1	4818.2	5002.3	5321.1	5865.0	6012.9	6768.9	7413.0
22.5°	4959.6	4982.6	4890.5	4810.0	4803.4	4915.2	5220.8	5779.6	5932.4	6726.1	7414.7
25°	5431.2	5446.0	5291.5	5104.2	4921.8	4884.0	5150.2	5720.4	5883.1	6688.3	7383.5
27.5°	6009.6	6021.1	5843.7	5567.6	5201.1	4957.9	5125.5	5685.9	5855.2	6655.5	7330.9
30°	6713.0	6767.2	6528.9	6180.5	5646.5	5176.5	5174.8	5667.8	5823.9	6599.6	7227.3
32.5°	7432.8	7455.8	7291.4	6938.1	6246.3	5561.0	5312.9	5681.0	5815.7	6532.2	7095.9
35°	8162.4	8192.0	8085.2	7800.9	7066.3	6124.7	5582.4	5758.2	5866.7	6509.2	7003.9
37.5°	9107.3	9146.7	8998.8	8670.2	8063.8	6888.8	6031.0	5952.1	6022.8	6574.9	6975.9
40°	10601.1	10583.0	10150.8	9661.1	9155.0	7866.6	6671.9	6280.8	6321.9	6786.9	7061.4
42.5°	12339.7	12295.4	11550.9	10781.9	10354.6	9049.8	7519.9	6851.0	6842.8	7204.3	7362.1
45°	13726.7	13690.5	13020.1	12071.9	11730.1	10397.3	8616.0	7700.6	7639.8	7866.6	7917.5
47.5°	14477.7	14479.3	14093.2	13319.2	13310.9	12109.7	10024.3	8929.8	8824.7	8931.5	8877.2
50°	14214.8	14249.3	14208.2	13961.7	14753.8	14354.4	11863.2	10643.8	10431.8	10537.0	10328.3
52.5°	12942.8	12987.2	13230.4	13608.4	15360.2	17067.6	14564.8	12773.6	12527.1	12489.3	12257.6
55°	10688.2	10742.4	11238.7	12265.8	14855.7	18890.0	18827.6	15488.3	15095.6	14739.0	14640.4
57.5°	7367.0	7457.4	8256.1	9781.1	13223.8	19440.5	23903.8	19358.4	18559.7	17314.1	17337.1
60°	4152.7	4257.9	5199.5	6584.8	9930.6	18842.4	27765.6	25220.1	23534.1	20329.6	20500.5
62.5°	2640.8	2754.2	3469.1	4575.0	5958.7	15621.5	29348.1	33369.4	31228.1	24046.8	24214.4
65°	2138.0	2187.3	2524.1	3776.4	4326.9	9411.3	28146.9	40082.3	39283.7	28764.8	27982.5
67.5°	2087.0	2103.5	2277.6	3170.0	4149.4	5289.9	22451.1	41337.8	42223.6	33170.5	29551.9
70°	2062.4	2119.9	2566.9	3025.4	3973.6	4461.6	13491.7	37896.7	39295.2	34322.5	27463.3
72.5°	1000.8	997.5	1291.7	2736.1	4476.4	4627.6	6931.5	30662.8	32066.2	29736.0	22567.8
75°	806.9	737.9	705.0	1002.4	4303.9	4778.8	4417.3	21098.7	22114.2	19936.8	13873.0
77.5°	765.8	683.6	626.1	627.8	1819.2	5068.0	3741.9	11677.5	11973.3	9005.4	3801.0
80°	634.3	558.7	517.6	583.4	880.8	4826.4	4045.9	5284.9	4849.5	2211.9	1265.4
82.5°	440.4	401.0	389.5	489.7	705.0	3439.5	4704.8	2839.7	2381.2	1107.6	780.6
85°	281.0	239.9	266.2	356.6	548.9	1587.5	4846.2	2213.6	1760.0	703.3	440.4
87.5°	129.8	105.2	131.5	197.2	358.2	547.2	4611.2	2486.4	1812.6	371.4	277.7
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°	7187.9	7187.9	7187.9	7187.9	7187.9	7187.9	7187.9	7187.9	7187.9	7187.9	7187.9
2.5°	7191.2	7160.0	7135.3	7089.3	7038.4	6989.1	6944.7	6888.8	6872.4	6857.6	6880.6
5°	7214.2	7183.0	7092.6	6951.3	6795.2	6648.9	6502.6	6377.7	6300.5	6257.8	6282.4
7.5°	7248.7	7204.3	7017.0	6757.4	6476.3	6220.0	5955.4	5743.4	5587.3	5513.4	5534.7
10°	7279.9	7194.5	6888.8	6499.4	6088.5	5707.3	5289.9	4944.8	4688.4	4553.7	4586.5
12.5°	7293.1	7156.7	6709.7	6177.3	5613.6	5054.9	4440.3	3924.3	3556.2	3421.4	3393.5
15°	7306.2	7114.0	6512.5	5810.8	5040.1	4249.6	3388.5	2770.6	2465.0	2397.6	2382.8
17.5°	7309.5	7040.0	6289.0	5413.1	4368.0	3291.6	2317.1	1924.3	1926.0	2034.4	2047.6
20°	7275.0	6929.9	6017.9	4918.5	3562.7	2276.0	1590.7	1523.4	1771.5	2042.7	2075.5
22.5°	7196.1	6783.6	5710.6	4341.7	2640.8	1498.7	1230.9	1304.8	1625.2	1957.2	1995.0
25°	7095.9	6606.2	5347.4	3672.8	1748.5	1071.4	1032.0	1122.4	1339.3	1561.2	1582.5
27.5°	6959.5	6395.8	4939.8	2907.0	1135.5	882.5	908.8	969.6	1058.3	1156.9	1166.8
30°	6783.6	6144.4	4504.4	2119.9	857.8	793.7	831.5	864.4	902.2	958.1	963.0
32.5°	6581.5	5902.8	4057.4	1464.2	760.9	747.7	777.3	793.7	823.3	857.8	861.1
35°	6412.3	5672.8	3594.0	1035.3	719.8	713.2	732.9	739.5	767.4	805.2	808.5
37.5°	6315.3	5485.4	3115.7	834.8	691.8	682.0	693.5	693.5	732.9	788.8	797.0
40°	6321.9	5381.9	2637.5	754.3	668.8	655.7	657.3	657.3	708.3	769.1	774.0
42.5°	6501.0	5408.2	2213.6	723.1	650.8	636.0	627.8	632.7	675.4	714.8	718.1
45°	6921.7	5593.9	1815.9	703.3	632.7	627.8	609.7	608.0	624.5	642.5	642.5
47.5°	7611.9	5960.3	1546.4	690.2	617.9	616.2	594.9	573.5	571.9	578.5	578.5
50°	8734.3	6591.4	1365.6	675.4	608.0	594.9	570.2	537.4	525.9	530.8	530.8
52.5°	10417.0	7717.1	1296.6	655.7	586.7	565.3	537.4	504.5	494.6	496.3	496.3
55°	12624.0	9445.8	1286.7	632.7	563.7	529.2	506.1	481.5	470.0	473.3	473.3
57.5°	15320.7	11836.9	1462.6	596.5	532.4	493.0	479.9	463.4	455.2	460.1	458.5
60°	18599.2	14965.8	2169.2	558.7	501.2	460.1	460.1	447.0	440.4	445.3	443.7
62.5°	22375.5	18559.7	3050.0	530.8	468.3	433.8	440.4	433.8	427.3	430.6	428.9
65°	25724.6	20901.5	2856.1	509.4	435.5	409.2	420.7	417.4	412.5	415.8	414.1
67.5°	25821.6	20033.8	1603.9	486.4	404.3	384.5	401.0	399.3	396.0	399.3	397.7
70°	23044.4	16916.4	903.8	443.7	371.4	355.0	378.0	376.3	373.0	379.6	378.0
72.5°	18462.8	12275.6	660.6	391.1	338.5	323.7	350.0	348.4	348.4	358.2	353.3
75°	10624.1	6316.9	527.5	335.2	304.0	292.5	315.5	317.2	320.4	333.6	323.7
77.5°	3028.6	1968.7	430.6	284.3	261.3	256.4	279.4	282.7	284.3	299.1	285.9
80°	1125.7	907.1	355.0	238.3	213.6	215.3	236.6	241.6	243.2	258.0	241.6
82.5°	718.1	598.2	287.6	184.1	167.6	166.0	192.3	198.8	198.8	200.5	190.6
85°	419.0	358.2	216.9	133.1	118.3	113.4	143.0	154.5	149.5	146.3	139.7
87.5°	281.0	246.5	133.1	73.9	64.1	60.8	83.8	92.0	88.7	83.8	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

(END OF REPORT)