

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: P193804

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193804
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-06-LED-E1-SL4-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 30282 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 382
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

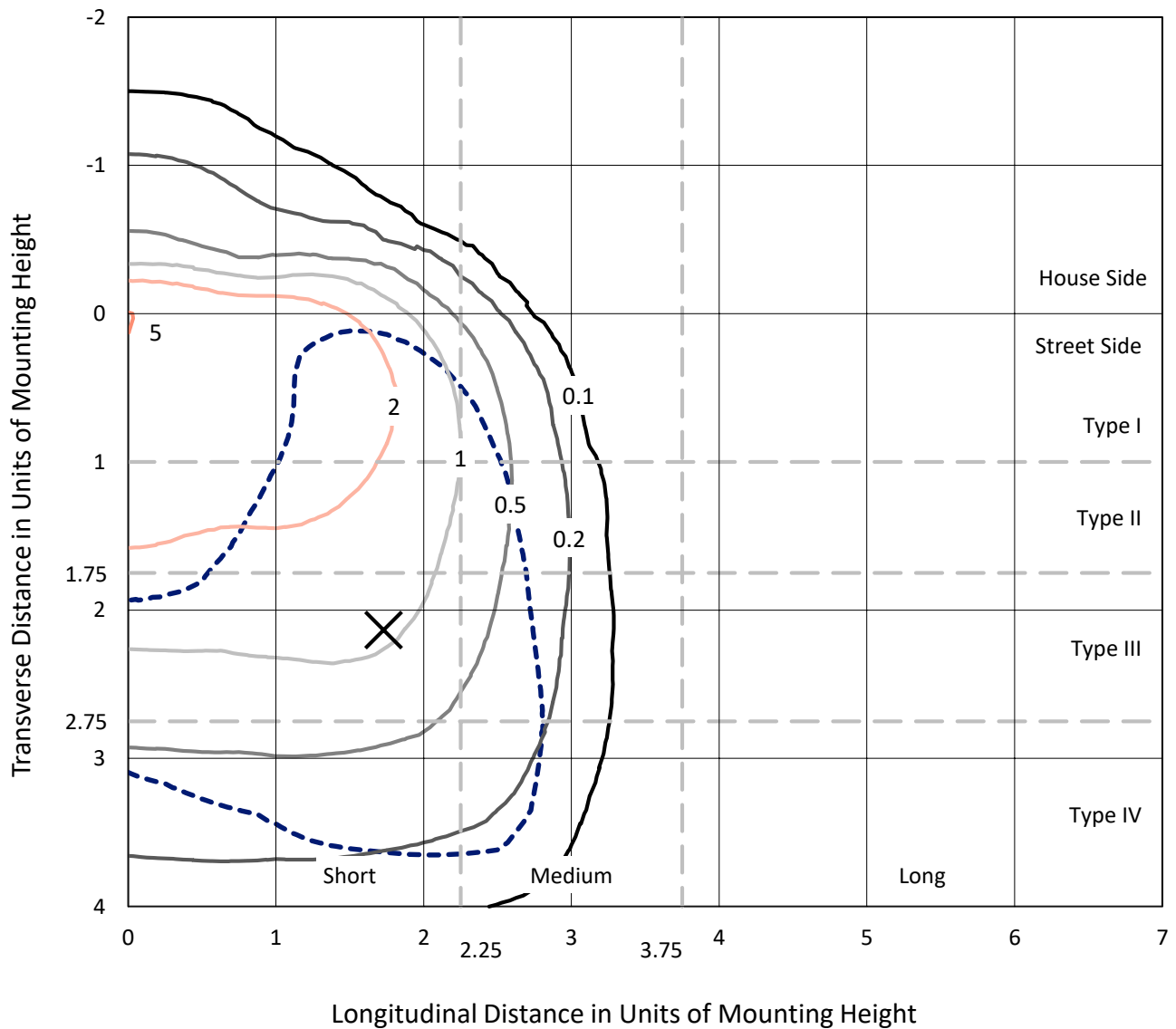


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

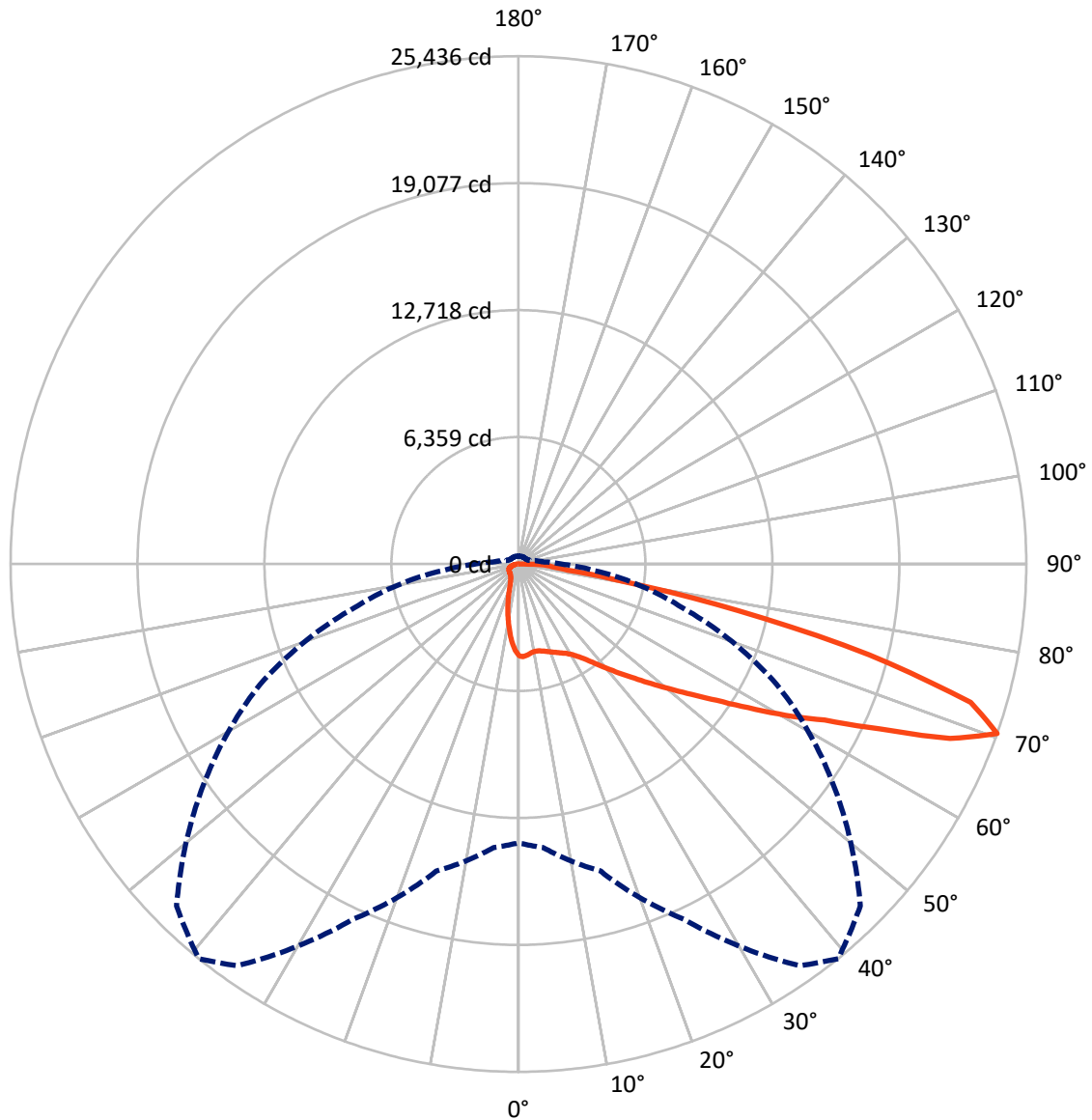


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Semi-Cutoff

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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	3444.1	0.0	3444.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	26837.9	0.0	26837.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	30282.0	0.0	30282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.5	1.3
10°-20°	986.2	3.3
20°-30°	1535.5	5.1
30°-40°	2392.1	7.9
40°-50°	4015.8	13.3
50°-60°	6379.5	21.1
60°-70°	8509.6	28.1
70°-80°	5138.7	17.0
80°-90°	930.0	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°	30282.0	100.0
0°-180°	30282.0	100.0

Coefficient of Utilization



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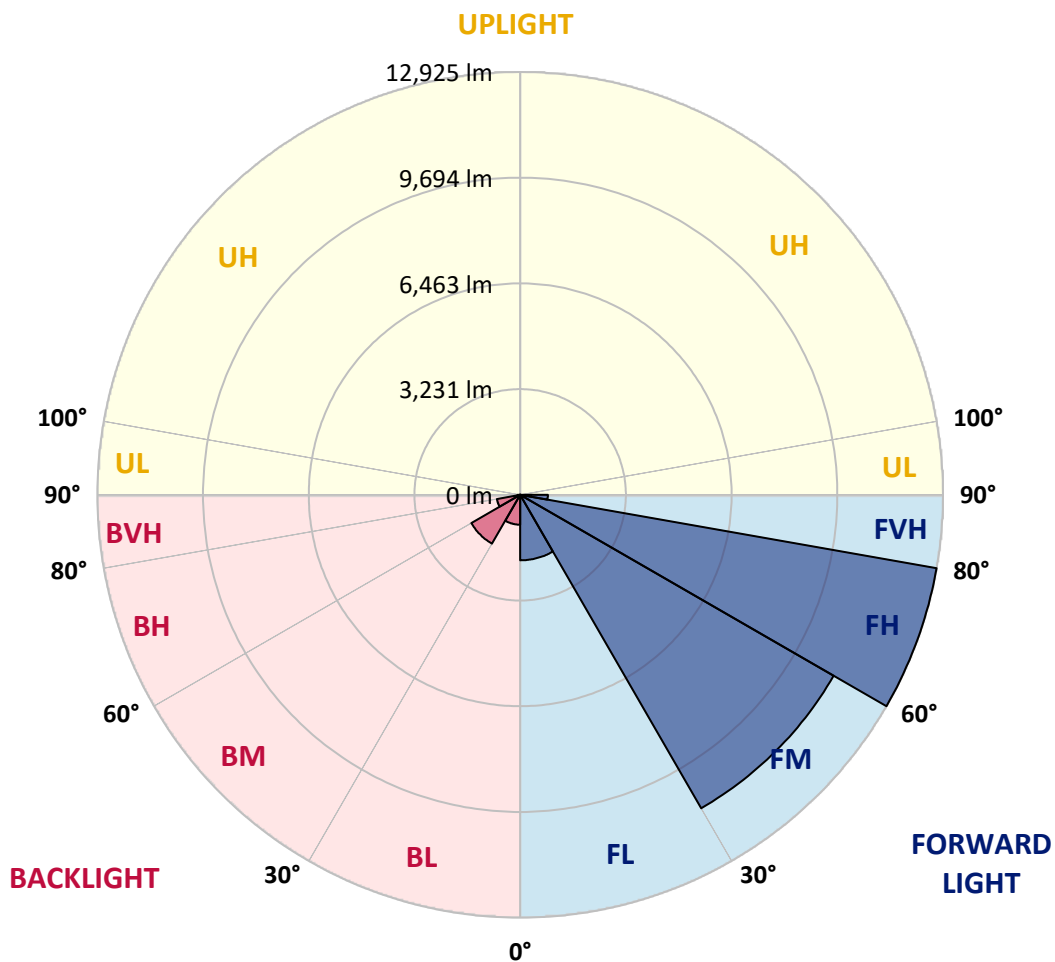
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2002.6	6.6			
FM (30°-60°)	11063.9	36.5			
FH (60°-80°)	12925.2	42.7			G5
FVH (80°-90°)	846.2	2.8			G5
BL (0°-30°)	913.7	3.0	B2/1000		
BM (30°-60°)	1723.6	5.7	B2/2500		
BH (60°-80°)	723.1	2.4	B2/1000		G2/1000
BVH (80°-90°)	83.8	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3
2.5°	4686.6	4685.0	4672.7	4663.5	4655.8	4652.7	4658.9	4635.8	4615.8	4591.1	4564.9
5°	4651.2	4649.6	4629.6	4611.1	4592.7	4586.5	4585.0	4543.4	4518.8	4481.8	4432.5
7.5°	4612.7	4605.0	4578.8	4548.0	4515.7	4500.3	4484.9	4431.0	4403.3	4366.3	4309.4
10°	4572.6	4563.4	4538.8	4508.0	4477.2	4454.1	4427.9	4375.6	4346.3	4318.6	4252.4
12.5°	4531.1	4523.4	4517.2	4503.4	4481.8	4461.8	4441.8	4397.1	4366.3	4334.0	4257.0
15°	4524.9	4521.8	4535.7	4544.9	4532.6	4520.3	4498.7	4460.3	4427.9	4395.6	4295.5
17.5°	4574.2	4572.6	4608.1	4632.7	4626.5	4605.0	4575.7	4532.6	4506.4	4478.7	4354.0
20°	4682.0	4689.7	4732.8	4765.1	4734.3	4703.5	4655.8	4595.7	4581.9	4569.6	4414.1
22.5°	4885.2	4892.9	4923.7	4936.0	4855.9	4811.3	4745.1	4668.1	4658.9	4668.1	4486.4
25°	5202.3	5194.6	5190.0	5143.8	4997.6	4928.3	4843.6	4763.6	4768.2	4809.7	4588.0
27.5°	5622.7	5581.1	5516.4	5377.9	5145.4	5068.4	4965.2	4891.3	4920.6	5000.7	4740.5
30°	6058.4	6012.2	5862.8	5636.5	5339.4	5254.7	5139.2	5056.1	5133.1	5259.3	4943.7
32.5°	6461.7	6455.6	6237.0	5946.0	5607.3	5533.4	5417.9	5324.0	5448.7	5641.1	5248.5
35°	6902.1	6915.9	6654.2	6304.7	5969.1	5892.1	5809.0	5738.1	5904.4	6169.2	5690.4
37.5°	7373.2	7400.9	7091.4	6697.3	6381.7	6349.4	6300.1	6269.3	6526.4	6892.8	6307.8
40°	8002.9	7975.2	7545.6	7140.7	6888.2	6886.7	6871.3	6908.2	7336.2	7838.2	7100.7
42.5°	8677.2	8595.6	8027.5	7616.5	7444.0	7496.4	7527.2	7678.0	8310.8	8986.7	8067.6
45°	9403.9	9220.7	8527.9	8119.9	8061.4	8172.3	8276.9	8604.9	9457.8	10293.8	9126.8
47.5°	9984.4	9807.3	9045.2	8648.0	8775.8	8943.6	9145.3	9664.1	10741.9	11644.1	10172.2
50°	10441.6	10326.2	9567.1	9263.8	9562.5	9821.2	10150.7	10863.5	12078.2	12958.9	11140.6
52.5°	10885.0	10798.8	10093.7	9895.1	10486.3	10843.5	11291.5	12150.6	13448.5	14252.2	11955.1
55°	11285.3	11223.8	10660.3	10681.8	11573.3	12038.2	12601.7	13616.3	14941.9	15405.3	12644.8
57.5°	11736.5	11657.9	11306.9	11668.7	12969.7	13573.2	14306.1	15263.7	16343.0	16430.7	13169.8
60°	12190.6	12122.9	12024.4	12808.0	14743.3	15377.6	16072.0	16860.3	17764.0	17226.7	13139.0
62.5°	12584.8	12592.5	12766.5	14004.3	16480.0	17214.4	18061.2	18840.2	19049.6	17365.3	12167.5
65°	13253.0	13374.6	13893.4	15697.9	18924.9	19907.2	20946.4	20821.7	19405.3	16070.5	10084.4
67.5°	14047.4	14261.4	15313.0	17954.9	22014.9	23318.9	23720.8	21269.7	17981.1	13063.6	7188.4
70°	13967.3	14261.4	15925.7	19637.7	24561.4	25435.9	24216.5	19249.8	14278.3	8534.1	3818.2
72.5°	12403.1	12823.4	14677.1	18866.4	23759.3	23682.3	21023.4	14350.7	8483.3	3427.2	1491.9
75°	9453.2	9878.1	11473.2	14905.0	18778.6	18132.0	14917.3	7927.5	3219.3	1361.0	940.7
77.5°	5437.9	5767.4	6999.1	9140.7	11913.5	11249.9	8303.1	3525.7	1567.3	948.4	734.4
80°	3036.1	3219.3	3967.6	4637.3	5838.2	5351.7	3715.1	2190.9	1170.1	688.2	566.6
82.5°	2400.3	2563.5	3208.5	2925.3	2666.6	2460.3	2133.9	1950.7	934.5	434.2	338.7
85°	2096.9	2252.5	2715.9	2303.3	1821.4	1670.5	1733.6	1919.9	726.7	261.7	289.4
87.5°	1943.0	2150.8	2420.3	1775.2	1418.0	1256.3	1599.7	2104.6	234.0	163.2	117.0
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°	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3
2.5°	4541.9	4517.2	4477.2	4441.8	4386.4	4357.1	4324.8	4301.7	4283.2	4267.8	4292.4
5°	4401.7	4355.6	4270.9	4180.0	4072.3	3987.6	3916.8	3850.6	3804.4	3773.6	3795.1
7.5°	4269.3	4193.9	4061.5	3896.8	3712.0	3555.0	3425.6	3311.7	3233.2	3182.4	3202.4
10°	4193.9	4100.0	3895.2	3636.6	3364.0	3119.3	2916.0	2740.5	2618.9	2549.6	2560.4
12.5°	4175.4	4053.8	3770.5	3414.9	3042.3	2702.0	2415.6	2172.4	2001.5	1912.2	1915.3
15°	4189.3	4033.8	3653.5	3202.4	2731.3	2301.7	1944.5	1648.9	1450.3	1348.7	1347.2
17.5°	4212.4	4018.4	3530.3	2973.0	2415.6	1916.8	1518.1	1228.6	1053.1	971.5	965.3
20°	4237.0	3993.7	3391.8	2725.1	2087.7	1559.6	1188.6	962.3	851.4	806.8	803.7
22.5°	4272.4	3972.2	3248.6	2463.4	1765.9	1270.2	977.7	825.2	766.7	743.6	740.6
25°	4329.4	3961.4	3096.2	2190.9	1476.5	1062.3	851.4	757.5	723.6	708.2	706.7
27.5°	4424.8	3976.8	2953.0	1926.1	1240.9	922.2	780.6	723.6	699.0	685.1	683.6
30°	4548.0	4024.5	2802.1	1675.1	1057.7	826.8	737.5	700.5	680.5	666.7	666.7
32.5°	4752.8	4104.6	2643.5	1458.0	926.8	760.6	705.1	680.5	663.6	652.8	651.3
35°	5054.5	4255.5	2495.7	1277.9	832.9	712.8	677.4	659.0	646.6	640.5	640.5
37.5°	5493.3	4494.1	2364.8	1148.5	776.0	680.5	651.3	637.4	629.7	629.7	629.7
40°	6083.0	4823.6	2258.6	1062.3	743.6	657.4	631.2	620.5	615.8	617.4	617.4
42.5°	6811.2	5251.6	2187.8	1002.3	728.2	643.6	617.4	608.1	603.5	602.0	603.5
45°	7641.1	5738.1	2180.1	957.6	712.8	634.3	608.1	598.9	589.7	583.5	583.5
47.5°	8447.8	6232.3	2243.2	942.2	695.9	623.5	600.4	591.2	577.4	563.5	563.5
50°	9160.7	6652.7	2327.9	948.4	689.7	608.1	588.1	583.5	562.0	546.6	545.0
52.5°	9727.3	6976.0	2397.2	966.9	695.9	597.4	572.7	574.3	551.2	534.2	532.7
55°	10181.4	7188.4	2378.7	985.4	709.8	591.2	558.9	562.0	543.5	526.5	526.5
57.5°	10380.1	7109.9	2173.9	970.0	720.5	592.8	548.1	560.4	545.0	529.6	529.6
60°	9953.6	6412.5	1790.6	902.2	706.7	588.1	543.5	566.6	565.0	549.6	548.1
62.5°	8663.4	5163.9	1388.7	802.1	659.0	565.0	531.2	565.0	582.0	577.4	575.8
65°	6677.3	3678.1	1060.8	694.4	594.3	526.5	498.8	529.6	552.7	558.9	557.3
67.5°	4334.0	2254.0	817.5	592.8	521.9	481.9	457.3	471.1	475.7	475.7	472.7
70°	2130.8	1213.2	651.3	498.8	448.0	434.2	420.3	412.6	404.9	398.8	398.8
72.5°	1051.6	792.9	535.8	421.9	386.4	380.3	377.2	368.0	361.8	354.1	351.0
75°	777.5	645.1	455.7	355.7	332.6	326.4	332.6	324.9	323.3	317.2	314.1
77.5°	638.9	549.6	392.6	304.8	284.8	274.1	283.3	284.8	286.4	277.1	274.1
80°	518.8	465.0	327.9	252.5	234.0	226.3	232.5	244.8	247.9	234.0	227.9
82.5°	374.1	380.3	264.8	197.1	181.7	175.5	187.8	203.2	206.3	186.3	181.7
85°	314.1	317.2	203.2	140.1	124.7	115.5	135.5	150.9	161.7	141.6	137.0
87.5°	130.9	186.3	117.0	78.5	69.3	60.0	72.4	80.1	97.0	89.3	87.8
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)