

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: P191243

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191243
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-05-LED-E1-SL4-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA 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: 23364.2 lumens
Efficiency: N/A
Efficacy: 111.3 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 - G4

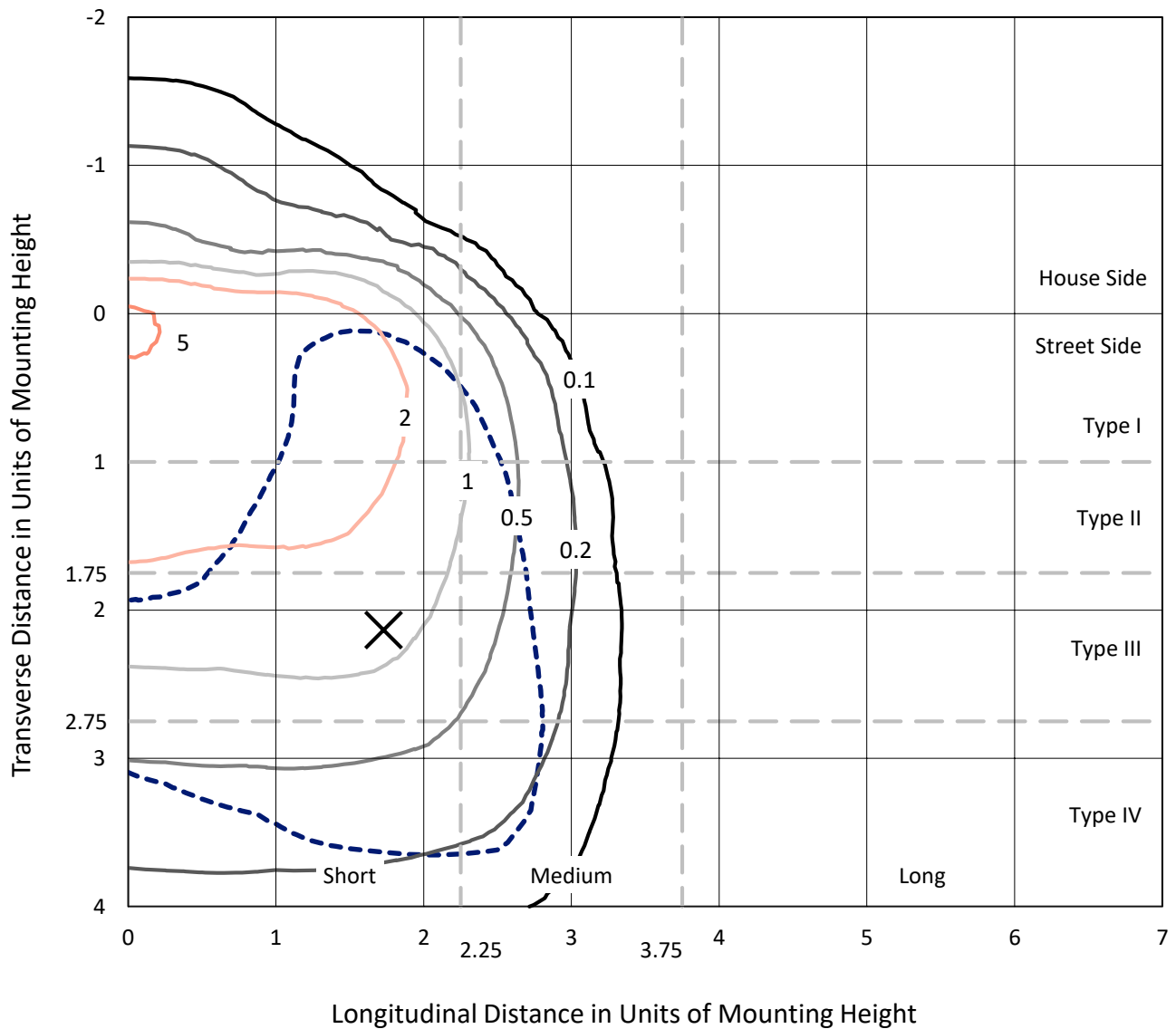
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

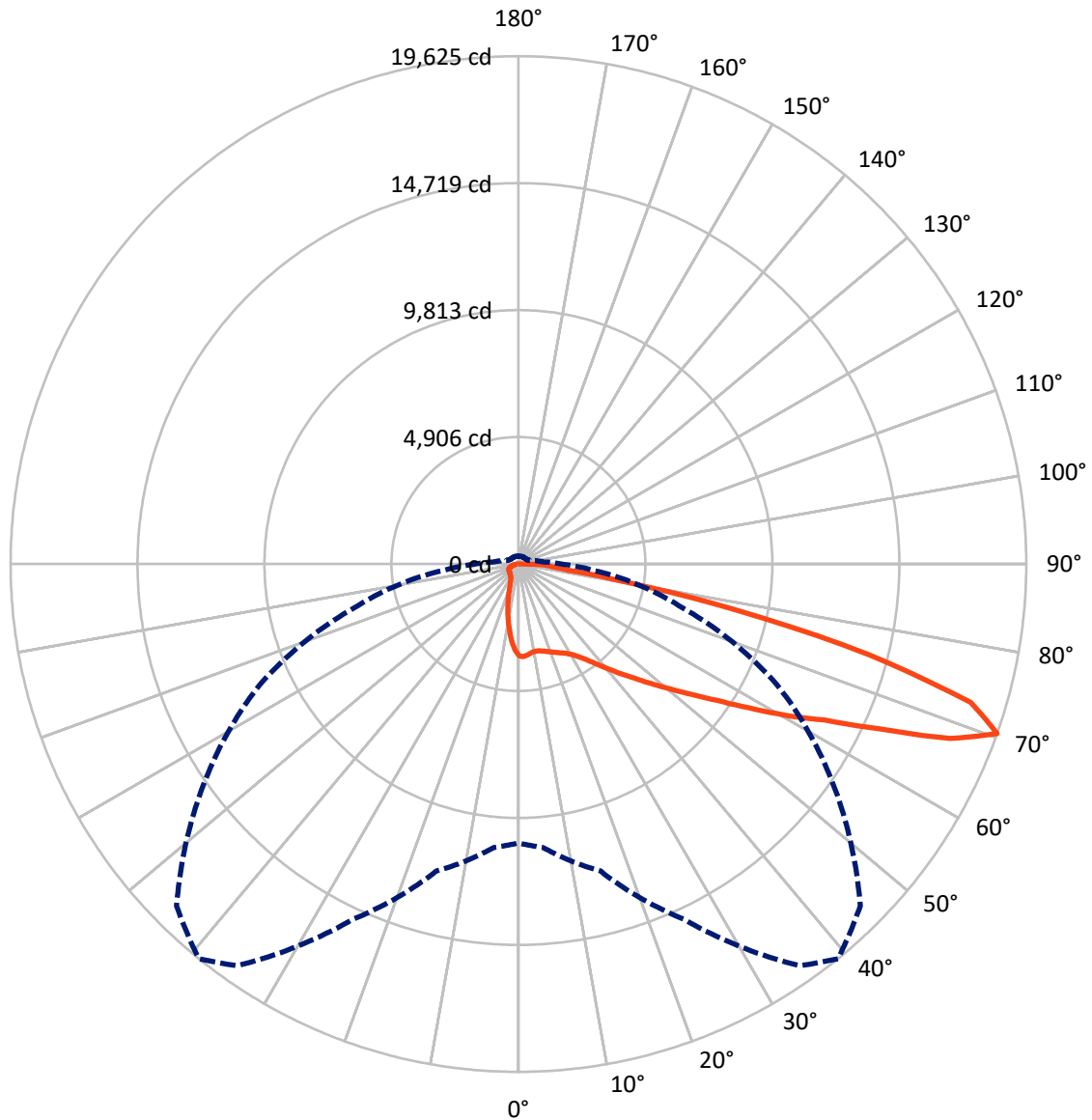
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2657.3	0.0	2657.3
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	20706.9	0.0	20706.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	23364.2	0.0	23364.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.4	1.3
10°-20°	760.9	3.3
20°-30°	1184.7	5.1
30°-40°	1845.6	7.9
40°-50°	3098.5	13.3
50°-60°	4922.1	21.1
60°-70°	6565.6	28.1
70°-80°	3964.8	17.0
80°-90°	717.6	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°	23364.2	100.0
0°-180°	23364.2	100.0



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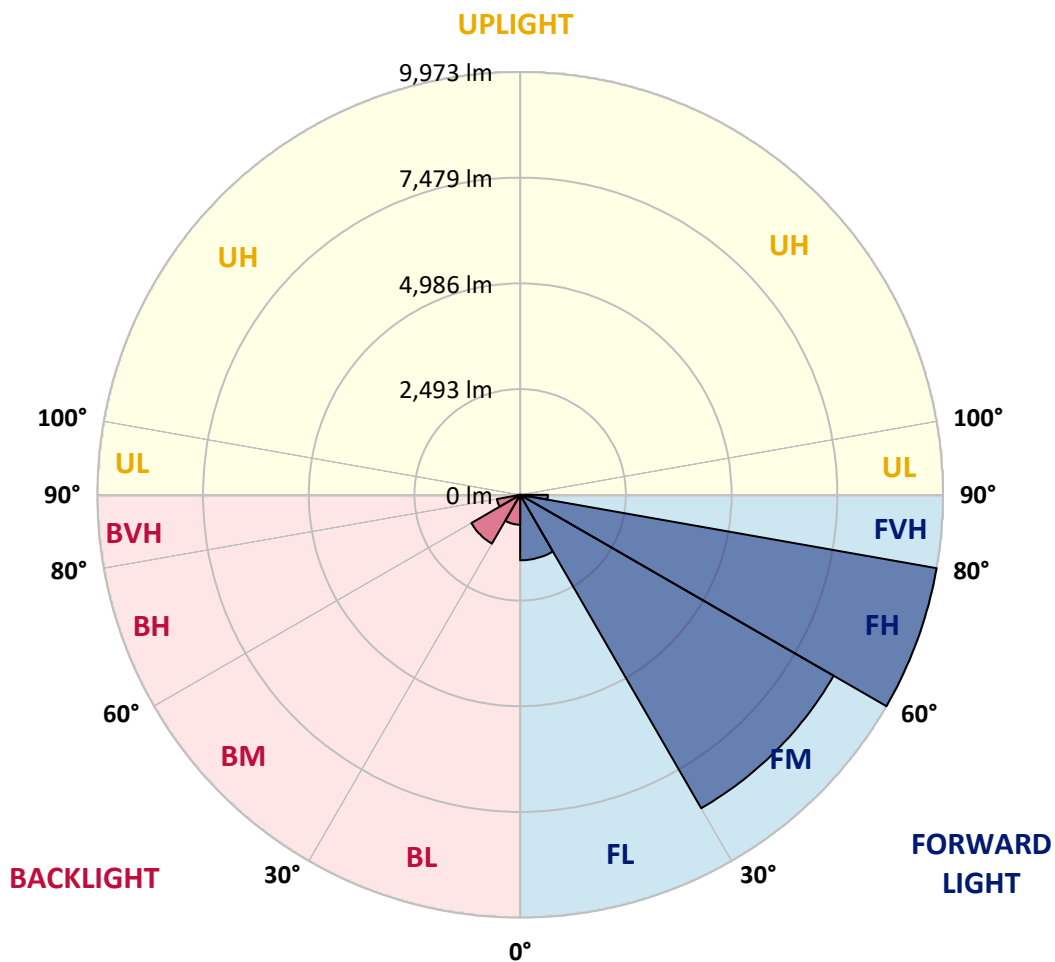
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1545.1	6.6			
FM	(30°-60°)	8536.4	36.5			
FH	(60°-80°)	9972.5	42.7			G4/12000
FVH	(80°-90°)	652.9	2.8			G4/750
BL	(0°-30°)	704.9	3.0	B2/1000		
BM	(30°-60°)	1329.8	5.7	B2/2500		
BH	(60°-80°)	557.9	2.4	B2/1000		G2/1000
BVH	(80°-90°)	64.7	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°	3547.1	3547.1	3547.1	3547.1	3547.1	3547.1	3547.1	3547.1	3547.1	3547.1	3547.1
2.5°	3615.9	3614.8	3605.3	3598.1	3592.2	3589.8	3594.5	3576.7	3561.3	3542.3	3522.1
5°	3588.6	3587.4	3572.0	3557.7	3543.5	3538.7	3537.6	3505.4	3486.4	3458.0	3419.9
7.5°	3558.9	3553.0	3532.8	3509.0	3484.1	3472.2	3460.3	3418.8	3397.3	3368.9	3324.9
10°	3528.1	3520.9	3501.9	3478.1	3454.4	3436.6	3416.3	3375.9	3353.4	3332.1	3280.9
12.5°	3495.9	3490.0	3485.3	3474.6	3458.0	3442.5	3427.1	3392.6	3368.9	3343.9	3284.5
15°	3491.2	3488.9	3499.5	3506.7	3497.2	3487.6	3471.0	3441.3	3416.3	3391.4	3314.3
17.5°	3529.2	3528.1	3555.4	3574.4	3569.6	3553.0	3530.4	3497.2	3477.0	3455.6	3359.4
20°	3612.3	3618.3	3651.6	3676.5	3652.8	3629.0	3592.2	3545.9	3535.2	3525.7	3405.7
22.5°	3769.2	3775.1	3798.8	3808.3	3746.7	3712.2	3661.0	3601.7	3594.5	3601.7	3461.6
25°	4013.9	4007.9	4004.3	3968.7	3855.9	3802.4	3737.1	3675.4	3678.9	3711.0	3539.9
27.5°	4338.2	4306.1	4256.2	4149.3	3970.0	3910.5	3831.0	3774.0	3796.5	3858.3	3657.6
30°	4674.4	4638.7	4523.5	4348.9	4119.6	4054.3	3965.2	3901.0	3960.5	4057.8	3814.3
32.5°	4985.6	4980.8	4812.2	4587.6	4326.3	4269.3	4180.2	4107.8	4203.9	4352.5	4049.6
35°	5325.3	5336.0	5134.1	4864.4	4605.4	4546.1	4482.0	4427.2	4555.6	4759.9	4390.4
37.5°	5688.8	5710.2	5471.5	5167.3	4923.8	4898.9	4860.9	4837.1	5035.5	5318.2	4866.8
40°	6174.6	6153.3	5821.8	5509.4	5314.6	5313.4	5301.5	5330.1	5660.3	6047.6	5478.5
42.5°	6695.0	6632.0	6193.7	5876.5	5743.5	5783.9	5807.6	5924.0	6412.3	6933.8	6224.6
45°	7255.7	7114.3	6579.7	6265.0	6219.8	6305.4	6386.1	6639.2	7297.2	7942.3	7041.8
47.5°	7703.4	7566.9	6978.9	6672.4	6771.0	6900.4	7056.1	7456.4	8287.9	8984.1	7848.4
50°	8056.2	7967.2	7381.6	7147.6	7378.0	7577.6	7831.8	8381.8	9319.0	9998.5	8595.5
52.5°	8398.4	8331.8	7787.8	7634.6	8090.7	8366.3	8712.0	9374.8	10376.2	10996.3	9223.9
55°	8707.3	8659.7	8224.9	8241.6	8929.3	9288.1	9722.9	10505.7	11528.5	11886.1	9756.2
57.5°	9055.3	8994.7	8723.9	9003.0	10006.8	10472.5	11037.9	11776.7	12609.5	12677.2	10161.3
60°	9405.7	9353.5	9277.4	9882.1	11375.2	11864.7	12400.4	13008.7	13705.9	13291.3	10137.4
62.5°	9709.8	9715.8	9850.0	10805.0	12715.2	13281.8	13935.1	14536.2	14697.8	13398.2	9387.9
65°	10225.4	10319.2	10719.5	12111.7	14601.6	15359.4	16161.3	16065.0	14972.2	12399.2	7780.7
67.5°	10838.4	11003.5	11814.8	13853.2	16985.7	17991.9	18301.8	16410.7	13873.4	10079.2	5546.2
70°	10776.6	11003.5	12287.6	15151.5	18950.5	19625.2	18684.4	14852.2	11016.6	6584.5	2946.0
72.5°	9569.7	9894.0	11324.2	14556.4	18331.6	18272.2	16220.6	11072.3	6545.2	2644.2	1151.0
75°	7293.6	7621.5	8852.2	11500.0	14488.8	13989.8	11509.5	6116.4	2483.9	1050.1	725.8
77.5°	4195.6	4449.8	5400.2	7052.5	9191.9	8679.9	6406.3	2720.2	1209.2	731.7	566.6
80°	2342.6	2483.9	3061.2	3578.0	4504.5	4129.1	2866.4	1690.3	902.8	531.0	437.1
82.5°	1852.0	1977.9	2475.5	2257.0	2057.5	1898.3	1646.4	1505.1	721.1	335.0	261.4
85°	1617.9	1737.9	2095.4	1777.1	1405.2	1288.8	1337.6	1481.3	560.7	201.9	223.3
87.5°	1499.1	1659.5	1867.4	1369.6	1094.0	969.3	1234.2	1623.8	180.6	125.9	90.3
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°	3547.1	3547.1	3547.1	3547.1	3547.1	3547.1	3547.1	3547.1	3547.1	3547.1	3547.1
2.5°	3504.3	3485.3	3454.4	3427.1	3384.3	3361.7	3336.8	3319.0	3304.7	3292.9	3311.8
5°	3396.2	3360.6	3295.2	3225.2	3142.0	3076.6	3022.0	2971.0	2935.3	2911.5	2928.2
7.5°	3294.0	3235.8	3133.7	3006.6	2864.1	2742.8	2643.1	2555.1	2494.6	2455.4	2470.8
10°	3235.8	3163.4	3005.3	2805.9	2595.5	2406.7	2249.9	2114.4	2020.6	1967.1	1975.4
12.5°	3221.6	3127.7	2909.2	2634.7	2347.3	2084.8	1863.8	1676.1	1544.2	1475.4	1477.8
15°	3232.2	3112.3	2818.8	2470.8	2107.3	1775.9	1500.3	1272.2	1119.0	1040.5	1039.4
17.5°	3250.1	3100.4	2723.8	2293.9	1863.8	1478.9	1171.3	948.0	812.5	749.5	744.8
20°	3269.0	3081.4	2616.9	2102.6	1610.7	1203.3	917.1	742.5	656.9	622.5	620.1
22.5°	3296.4	3064.8	2506.4	1900.6	1362.5	980.0	754.3	636.7	591.6	573.8	571.4
25°	3340.3	3056.5	2388.9	1690.3	1139.2	819.7	656.9	584.4	558.3	546.5	545.2
27.5°	3414.0	3068.3	2278.4	1486.0	957.5	711.6	602.2	558.3	539.3	528.7	527.4
30°	3509.0	3105.2	2162.0	1292.4	816.1	637.9	569.0	540.5	525.1	514.3	514.3
32.5°	3667.1	3167.0	2039.7	1124.9	715.1	586.9	544.0	525.1	512.0	503.7	502.5
35°	3899.9	3283.4	1925.6	985.9	642.6	550.0	522.6	508.4	498.9	494.2	494.2
37.5°	4238.4	3467.5	1824.6	886.2	598.7	525.1	502.5	491.8	485.8	485.8	485.8
40°	4693.4	3721.7	1742.6	819.7	573.8	507.2	487.0	478.7	475.2	476.4	476.4
42.5°	5255.2	4051.9	1688.0	773.4	561.9	496.5	476.4	469.2	465.6	464.4	465.6
45°	5895.5	4427.2	1682.0	738.9	550.0	489.4	469.2	462.1	455.0	450.2	450.2
47.5°	6517.9	4808.6	1730.7	727.0	536.9	481.1	463.3	456.1	445.5	434.8	434.8
50°	7068.0	5132.9	1796.1	731.7	532.1	469.2	453.8	450.2	433.6	421.7	420.5
52.5°	7505.1	5382.4	1849.6	746.0	536.9	460.9	441.9	443.0	425.2	412.2	411.0
55°	7855.5	5546.2	1835.3	760.3	547.6	456.1	431.2	433.6	419.3	406.2	406.2
57.5°	8008.8	5485.7	1677.3	748.4	556.0	457.4	422.9	432.4	420.5	408.7	408.7
60°	7679.7	4947.6	1381.5	696.1	545.2	453.8	419.3	437.1	436.0	424.1	422.9
62.5°	6684.3	3984.2	1071.4	618.9	508.4	436.0	409.8	436.0	449.0	445.5	444.3
65°	5151.9	2837.9	818.5	535.7	458.5	406.2	384.8	408.7	426.5	431.2	430.0
67.5°	3343.9	1739.1	630.8	457.4	402.7	371.8	352.8	363.5	367.0	367.0	364.7
70°	1644.1	936.1	502.5	384.8	345.7	335.0	324.3	318.3	312.4	307.7	307.7
72.5°	811.3	611.7	413.4	325.5	298.2	293.4	291.0	283.9	279.2	273.2	270.9
75°	599.9	497.8	351.6	274.4	256.6	251.9	256.6	250.6	249.5	244.7	242.3
77.5°	493.0	424.1	302.9	235.2	219.7	211.4	218.6	219.7	221.0	213.8	211.4
80°	400.3	358.7	253.0	194.8	180.6	174.6	179.3	188.8	191.3	180.6	175.8
82.5°	288.7	293.4	204.3	152.0	140.1	135.4	145.0	156.8	159.2	143.7	140.1
85°	242.3	244.7	156.8	108.1	96.3	89.1	104.5	116.4	124.7	109.3	105.8
87.5°	101.0	143.7	90.3	60.6	53.5	46.3	55.9	61.8	74.9	68.9	67.7
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)