

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: P193712

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19595 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

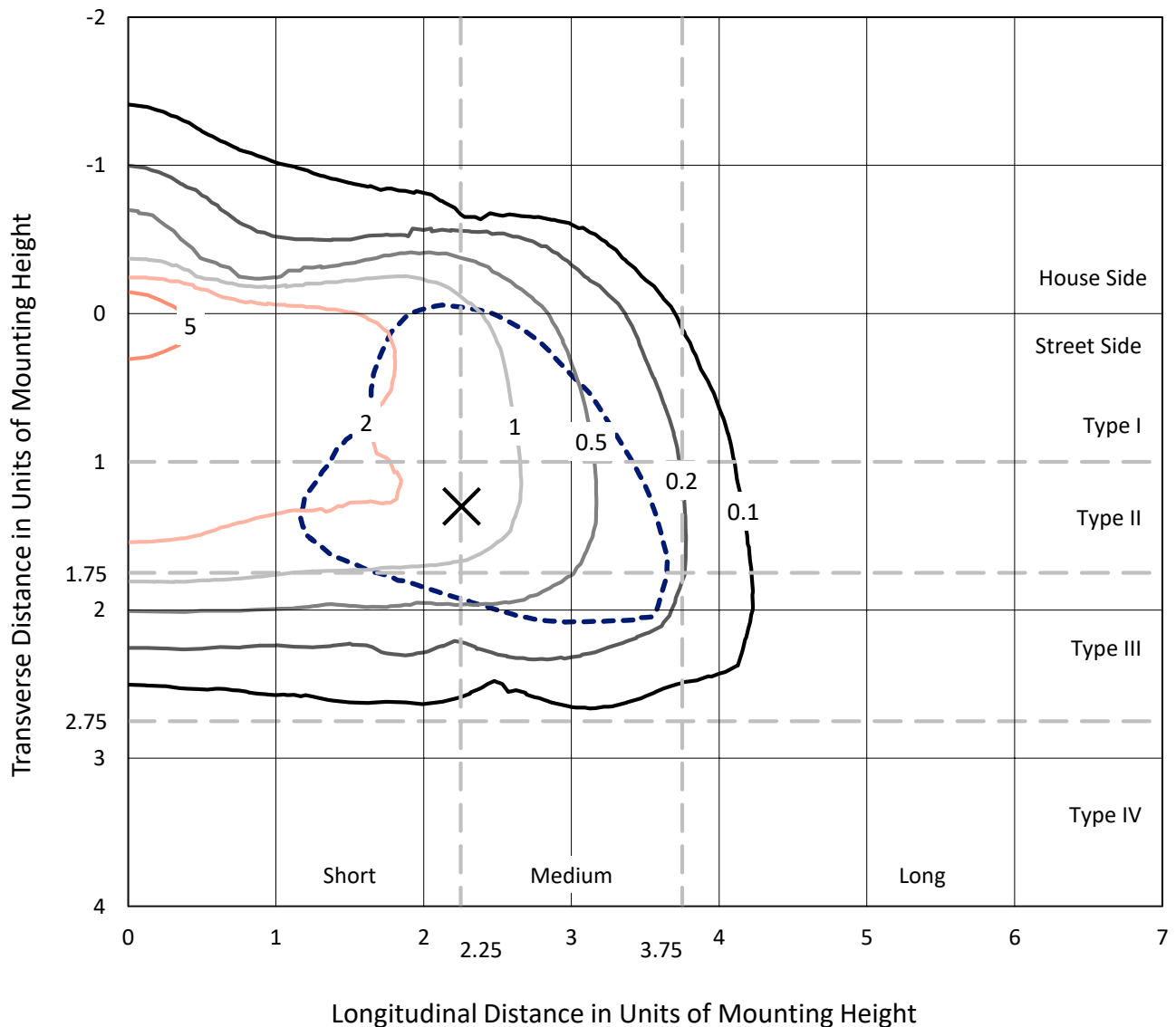
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

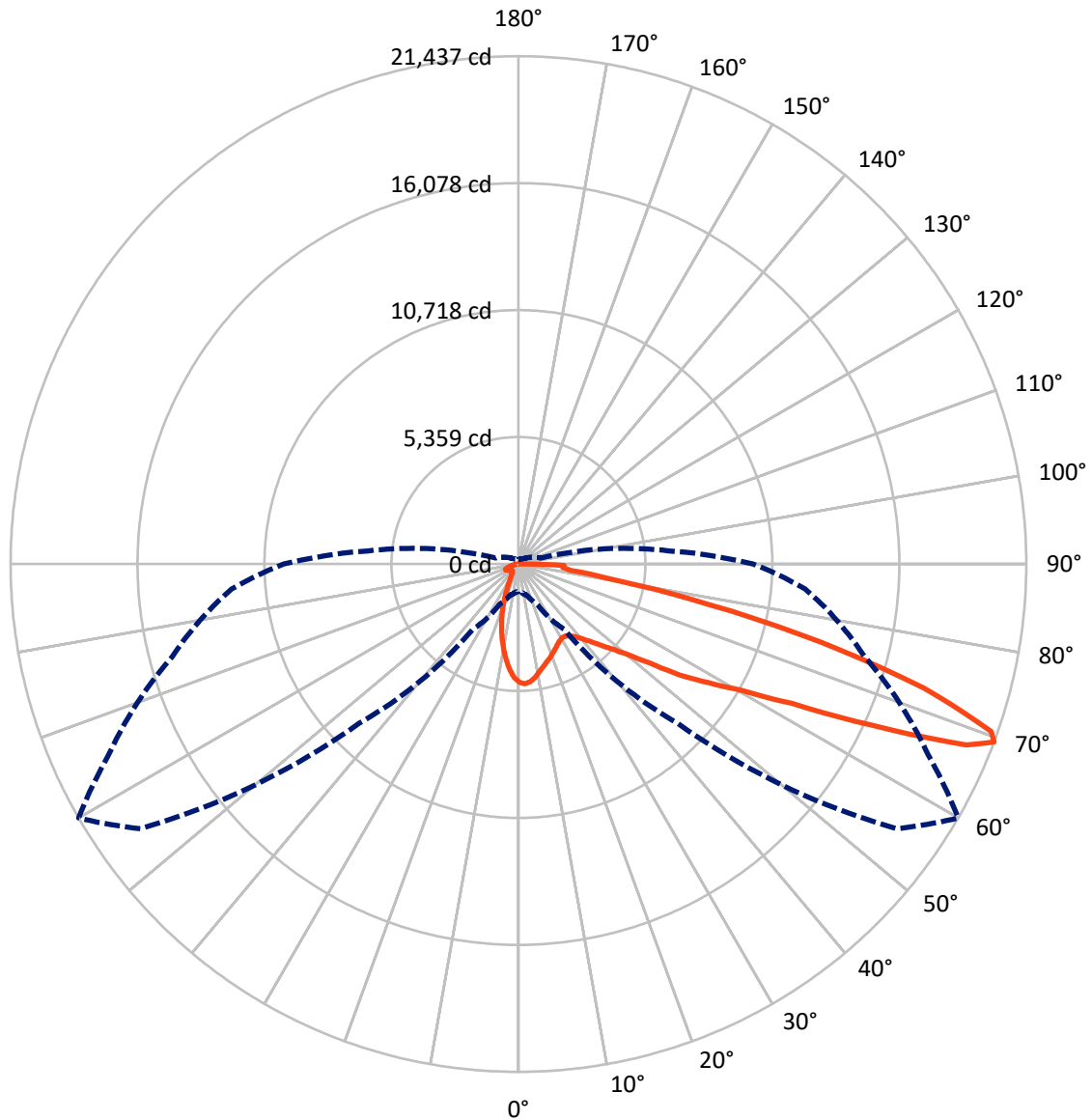
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2787.7	0.0	2787.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	16807.2	0.0	16807.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	19595.0	0.0	19595.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.2	2.2
10°-20°	899.5	4.6
20°-30°	1146.1	5.8
30°-40°	1575.6	8.0
40°-50°	2556.6	13.0
50°-60°	4100.1	20.9
60°-70°	5456.9	27.8
70°-80°	2946.3	15.0
80°-90°	491.6	2.5
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°	19595.0	100.0
0°-180°	19595.0	100.0



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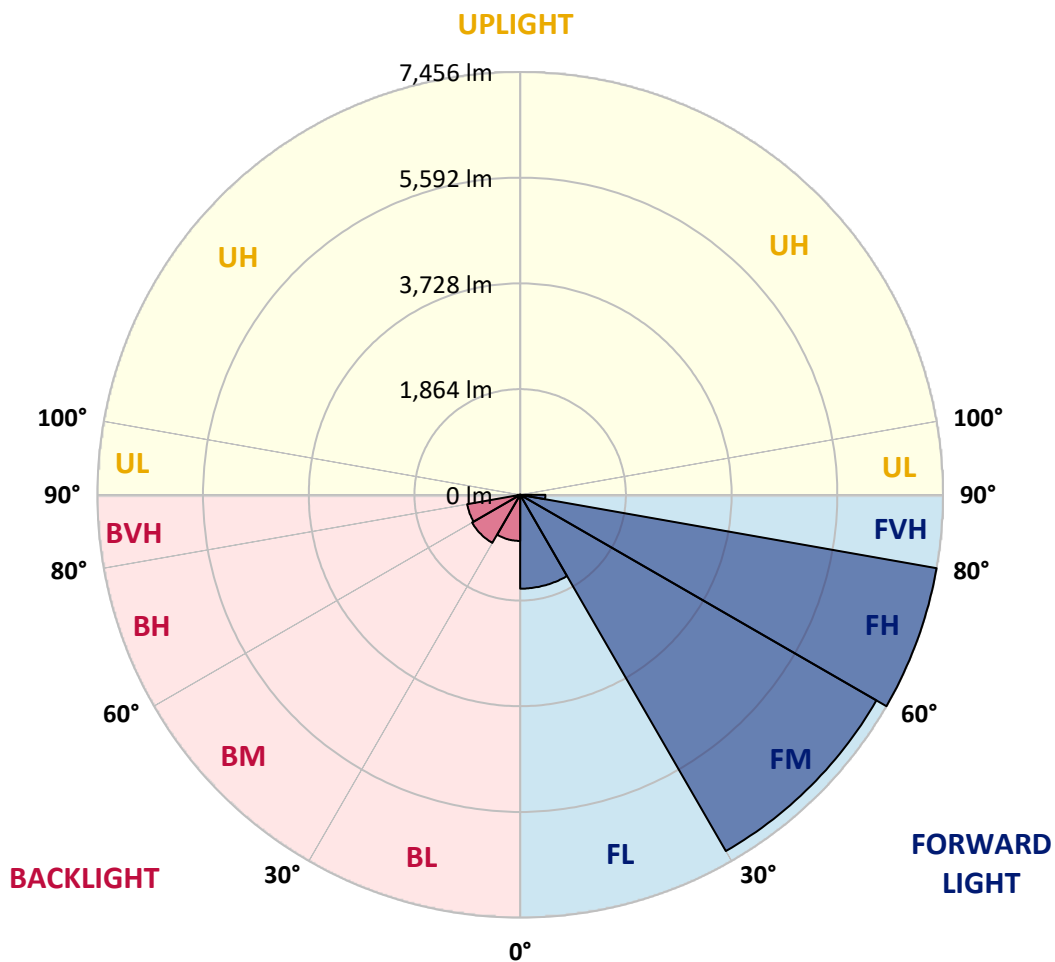
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1654.5	8.4			
FM	(30°-60°)	7252.9	37.0			
FH	(60°-80°)	7455.5	38.0			G3/7500
FVH	(80°-90°)	444.3	2.3			G3/500
BL	(0°-30°)	813.3	4.2	B2/1000		
BM	(30°-60°)	979.4	5.0	B1/1000		
BH	(60°-80°)	947.7	4.8	B2/1000		G2/1000
BVH	(80°-90°)	47.3	0.2			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4993.1	4993.1	4993.1	4993.1	4993.1	4993.1	4993.1	4993.1	4993.1	4993.1	4993.1
2.5°	5095.3	5106.7	5102.0	5099.1	5107.6	5094.4	5066.9	5058.4	5045.2	5013.9	4960.9
5°	4904.1	4938.2	4936.3	4961.9	5004.5	5015.8	5003.5	5005.4	4980.8	4942.0	4854.0
7.5°	4573.8	4588.0	4595.5	4651.4	4729.0	4791.5	4844.5	4861.5	4850.2	4817.0	4703.5
10°	4233.0	4244.4	4262.4	4327.7	4426.1	4512.3	4612.6	4670.3	4694.9	4689.3	4562.4
12.5°	3940.5	3951.9	3975.6	4049.4	4166.8	4272.8	4418.5	4490.5	4549.2	4584.2	4447.9
15°	3678.3	3702.9	3725.7	3810.9	3942.4	4081.6	4246.3	4337.1	4428.0	4506.6	4346.6
17.5°	3473.9	3498.5	3511.7	3589.4	3729.4	3899.8	4092.9	4199.9	4313.5	4442.2	4246.3
20°	3355.6	3366.9	3361.2	3404.8	3530.7	3711.5	3940.5	4064.5	4201.8	4381.6	4145.9
22.5°	3322.4	3323.4	3302.5	3297.8	3379.2	3531.6	3777.7	3928.2	4096.7	4341.9	4059.8
25°	3402.9	3400.0	3343.2	3296.9	3305.4	3394.4	3620.6	3795.7	4008.7	4333.4	3993.5
27.5°	3581.8	3590.3	3506.1	3419.0	3332.8	3330.0	3501.3	3685.9	3936.7	4372.2	3965.1
30°	3832.6	3846.8	3756.9	3646.1	3484.3	3350.8	3454.9	3620.6	3892.3	4452.6	3960.4
32.5°	4107.1	4122.3	4054.1	3937.7	3725.7	3479.6	3487.1	3626.3	3890.4	4565.3	3992.6
35°	4399.6	4416.6	4381.6	4283.2	4047.5	3717.1	3610.2	3718.1	3951.9	4737.5	4078.7
37.5°	4726.2	4752.7	4762.1	4668.4	4416.6	4030.5	3811.8	3892.3	4091.0	4977.0	4236.8
40°	5196.6	5233.5	5230.7	5096.3	4839.8	4453.6	4123.2	4144.0	4307.8	5296.9	4489.5
42.5°	6097.7	6105.3	5869.6	5577.1	5305.5	4898.4	4490.5	4473.4	4606.9	5702.1	4861.5
45°	7244.0	7212.8	6688.4	6123.3	5792.0	5409.6	4968.5	4885.2	4986.5	6196.2	5327.2
47.5°	8195.3	8123.4	7460.8	6680.8	6306.9	5965.2	5529.8	5384.0	5439.9	6756.5	5929.3
50°	8525.7	8471.7	7922.7	7144.6	6794.4	6643.0	6220.8	6014.4	6029.6	7424.8	6634.4
52.5°	8454.7	8447.1	8080.8	7450.4	7250.6	7354.8	7199.5	6920.3	6772.6	8166.9	7395.5
55°	8287.1	8303.2	8170.7	7806.3	7772.2	8042.0	8478.3	8272.0	7812.9	8915.6	8182.1
57.5°	7705.0	7746.6	8038.2	8254.0	8611.8	9013.1	9508.2	9449.5	8932.7	9725.0	9117.3
60°	6207.5	6304.1	7085.9	8166.9	9476.0	10731.1	10952.6	10816.3	10087.5	10729.3	10352.5
62.5°	4349.4	4449.8	5379.3	7070.8	9334.0	12671.6	13534.9	12947.0	11745.9	12208.7	11951.3
65°	2328.5	2376.8	3086.7	4906.0	7880.1	13072.0	17308.8	16414.3	14371.6	14032.8	13319.0
67.5°	1284.5	1311.0	1582.6	2477.1	5047.1	11511.1	19713.1	20388.9	17653.3	15247.2	13070.1
69°	1161.4	1186.0	1364.0	1876.1	3377.3	9517.7	19478.3	21436.7	19092.1	15127.0	12150.0
70°	1135.9	1158.6	1318.6	1729.4	2733.7	7845.1	18691.7	21168.9	19434.8	14696.3	11347.4
72.5°	1022.3	1046.9	1202.1	1553.3	2336.1	3911.2	14806.1	17898.5	17644.8	12742.6	8607.1
75°	953.2	975.9	1239.0	1521.1	2236.7	2475.3	9760.9	13191.3	12970.7	8913.8	4641.0
77.5°	408.0	406.1	574.6	1287.3	2269.9	2396.7	5244.9	8240.8	7518.5	3809.9	1332.8
80°	272.6	267.9	272.6	378.6	2081.5	2409.9	2747.9	4182.8	3159.6	971.2	656.9
82.5°	234.7	231.0	239.5	231.0	731.7	2750.7	2336.1	2224.4	1502.2	551.8	325.6
85°	158.1	151.4	206.4	207.3	345.5	2444.0	2631.4	1878.9	1215.4	327.5	160.9
87.5°	75.7	73.8	120.2	146.7	202.6	992.9	2952.3	1925.3	1225.8	167.5	76.7
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°	4993.1	4993.1	4993.1	4993.1	4993.1	4993.1	4993.1	4993.1	4993.1	4993.1	4993.1
2.5°	4944.8	4906.0	4868.2	4822.7	4775.4	4722.4	4695.9	4669.4	4662.8	4655.2	4628.7
5°	4808.5	4753.6	4659.0	4554.8	4445.0	4338.1	4256.7	4205.6	4166.8	4146.9	4111.9
7.5°	4632.5	4552.0	4386.4	4206.5	4021.9	3853.4	3707.7	3615.9	3528.8	3488.1	3441.7
10°	4464.9	4344.7	4087.2	3822.2	3557.2	3302.5	3063.1	2893.6	2743.1	2658.9	2599.3
12.5°	4321.0	4156.3	3799.5	3440.7	3077.3	2714.7	2356.0	2073.9	1838.2	1714.2	1650.8
15°	4181.0	3982.2	3525.9	3070.6	2604.0	2110.8	1639.4	1319.5	1124.5	1046.9	1020.4
17.5°	4054.1	3799.5	3251.4	2697.7	2115.6	1519.2	1101.8	925.7	851.0	825.4	816.9
20°	3916.9	3614.9	2966.5	2307.7	1606.3	1062.0	860.4	782.8	752.5	744.9	741.2
22.5°	3784.3	3433.2	2693.9	1890.3	1153.9	819.7	739.3	707.1	702.3	709.0	709.0
25°	3671.7	3270.4	2399.5	1453.9	847.2	690.0	661.6	654.1	672.1	696.7	701.4
27.5°	3587.5	3136.9	2086.2	1073.4	674.9	600.1	599.2	611.5	656.0	703.3	712.8
30°	3529.7	3010.1	1751.1	774.3	566.0	528.2	543.3	569.8	635.1	702.3	720.3
32.5°	3500.4	2916.4	1401.9	599.2	484.6	463.8	489.4	521.6	585.9	648.4	672.1
35°	3523.1	2847.3	1072.5	499.8	427.8	411.8	438.3	469.5	507.4	533.9	551.8
37.5°	3608.3	2819.8	809.3	447.7	389.0	373.9	394.7	412.7	427.8	435.4	443.9
40°	3791.9	2849.1	648.4	421.2	367.3	348.3	356.9	363.5	372.9	380.5	384.3
42.5°	4062.6	2937.2	581.2	410.8	355.9	328.5	326.6	329.4	341.7	355.9	358.7
45°	4441.3	3092.4	576.5	417.4	350.2	312.4	303.8	307.6	326.6	348.3	352.1
47.5°	4925.0	3329.1	614.3	437.3	355.0	303.8	289.6	294.4	318.0	347.4	352.1
50°	5510.9	3659.4	677.7	466.7	375.8	305.7	284.9	287.8	312.4	344.5	349.3
52.5°	6202.8	4127.9	746.8	495.1	397.6	318.0	288.7	282.1	304.8	333.2	338.9
55°	6972.4	4729.0	817.8	520.6	408.9	333.2	296.3	274.5	290.6	314.3	319.0
57.5°	7917.0	5569.6	940.9	545.2	416.5	343.6	303.8	266.9	272.6	289.6	293.4
60°	9195.8	6758.4	1157.6	585.9	433.5	347.4	302.9	260.3	254.6	264.1	266.0
62.5°	10728.3	8049.5	1338.4	637.0	461.9	350.2	297.2	255.6	239.5	239.5	241.4
65°	11638.0	8395.0	1238.1	679.6	485.6	347.4	290.6	250.8	228.1	217.7	218.7
67.5°	10866.5	7383.2	1061.1	688.1	484.6	334.1	280.2	242.3	216.8	200.7	199.7
69°	9900.1	6370.3	981.6	665.4	461.9	317.1	266.9	232.9	208.2	191.2	190.3
70°	9121.1	5752.2	929.5	640.8	437.3	304.8	256.5	224.3	201.6	185.5	183.6
72.5°	6631.6	3769.2	794.2	550.9	360.6	255.6	221.5	196.9	179.8	170.4	168.5
75°	3313.9	1797.5	644.6	446.8	276.4	204.5	181.7	164.7	156.2	154.3	153.3
77.5°	1088.5	823.5	461.0	333.2	205.4	160.0	146.7	134.4	132.5	138.2	136.3
80°	598.2	479.0	292.5	220.5	140.1	117.4	115.5	108.9	111.7	121.2	119.3
82.5°	304.8	248.9	180.8	132.5	94.7	84.2	91.8	88.0	91.8	100.3	99.4
85°	150.5	136.3	114.5	80.5	62.5	54.0	65.3	68.2	70.0	76.7	76.7
87.5°	87.1	80.5	60.6	37.9	31.2	28.4	37.9	36.9	43.5	47.3	46.4
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)