

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: P192053

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192053
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-SL4-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA 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: 28269 lumens
Efficiency: N/A
Efficacy: 101.3 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

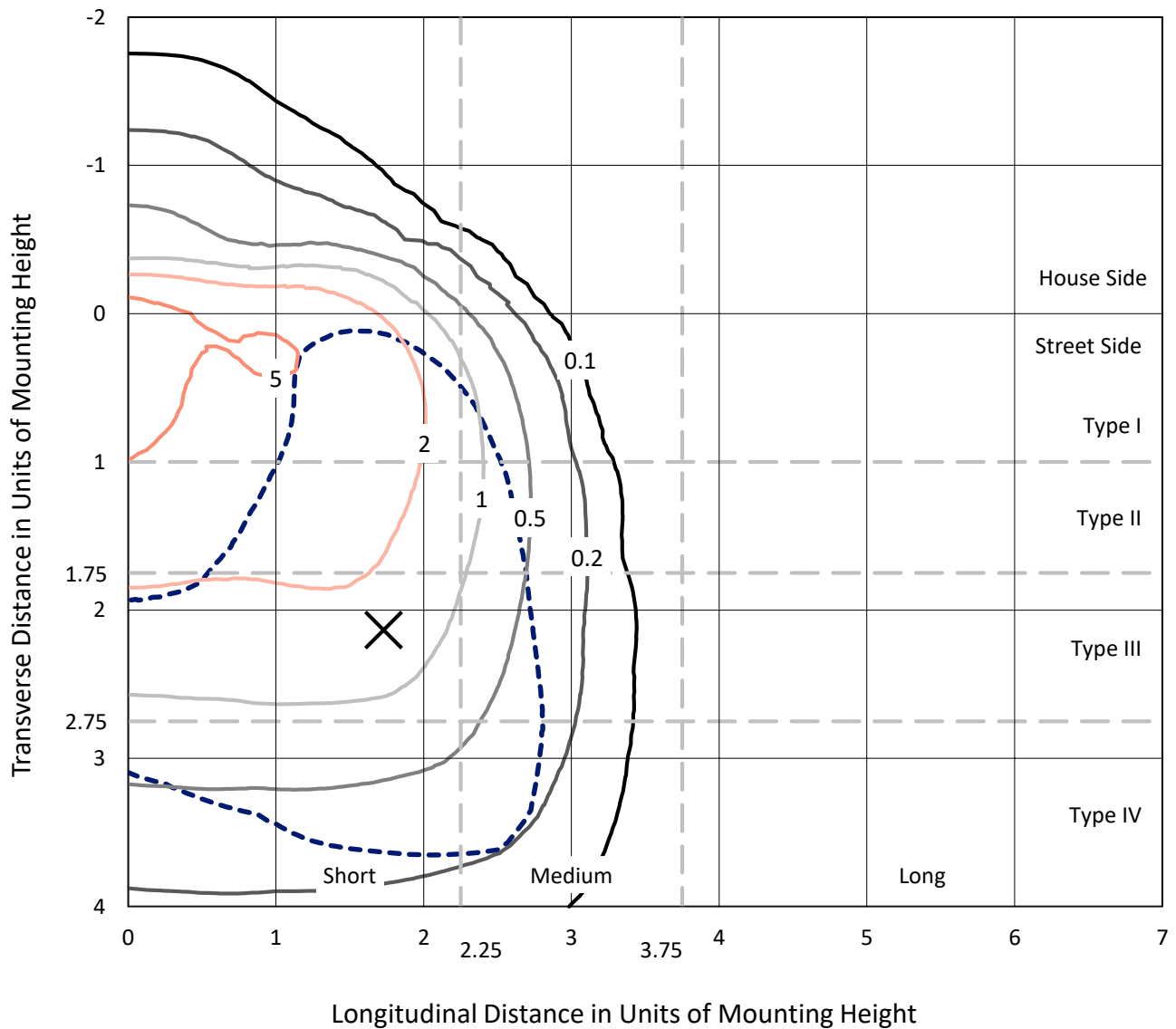
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

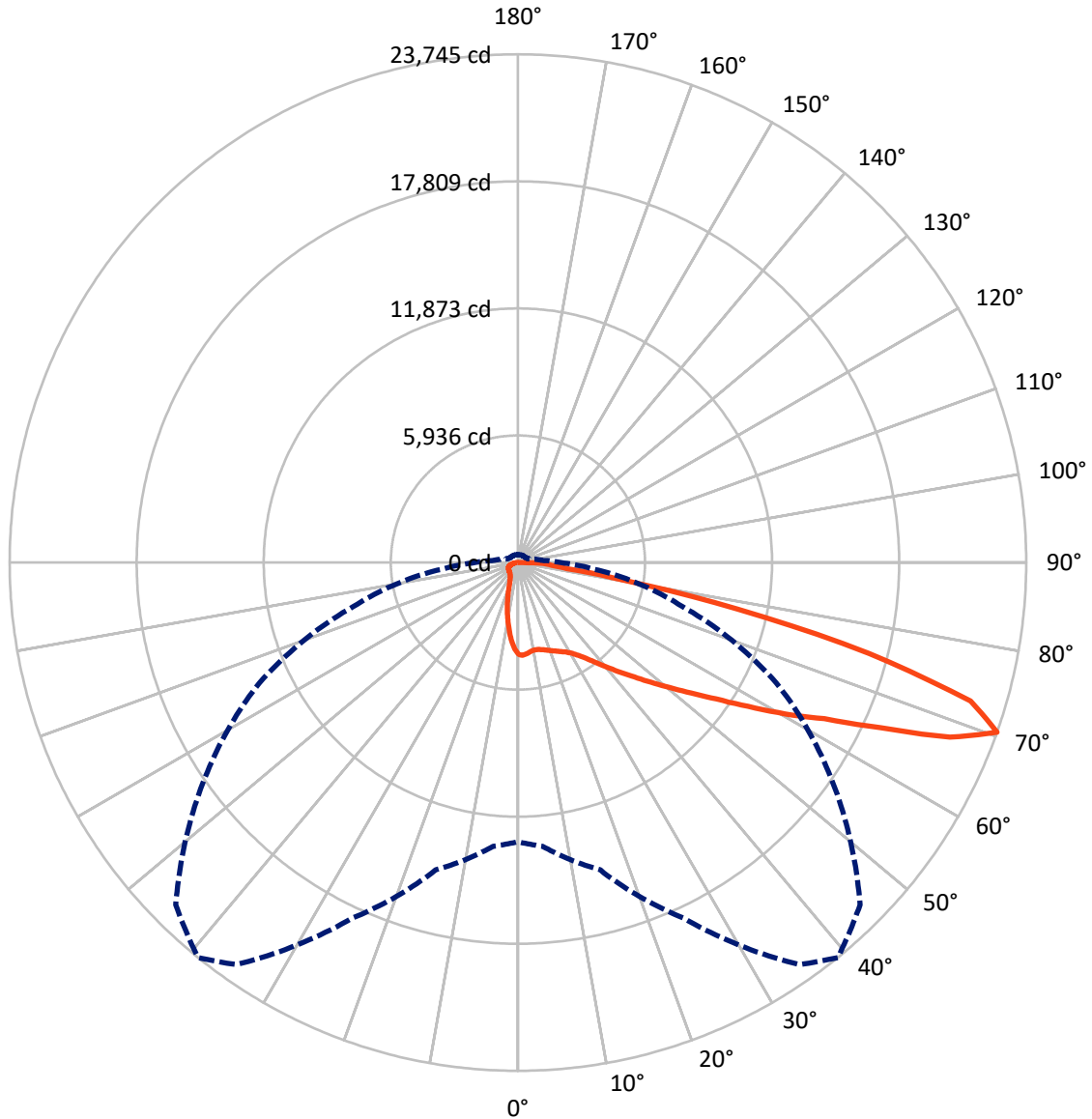
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3215.1	0.0	3215.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	25053.9	0.0	25053.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	28269.0	0.0	28269.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.3	1.3
10°-20°	920.6	3.3
20°-30°	1433.4	5.1
30°-40°	2233.0	7.9
40°-50°	3748.9	13.3
50°-60°	5955.4	21.1
60°-70°	7943.9	28.1
70°-80°	4797.1	17.0
80°-90°	868.2	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°	28269.0	100.0
0°-180°	28269.0	100.0



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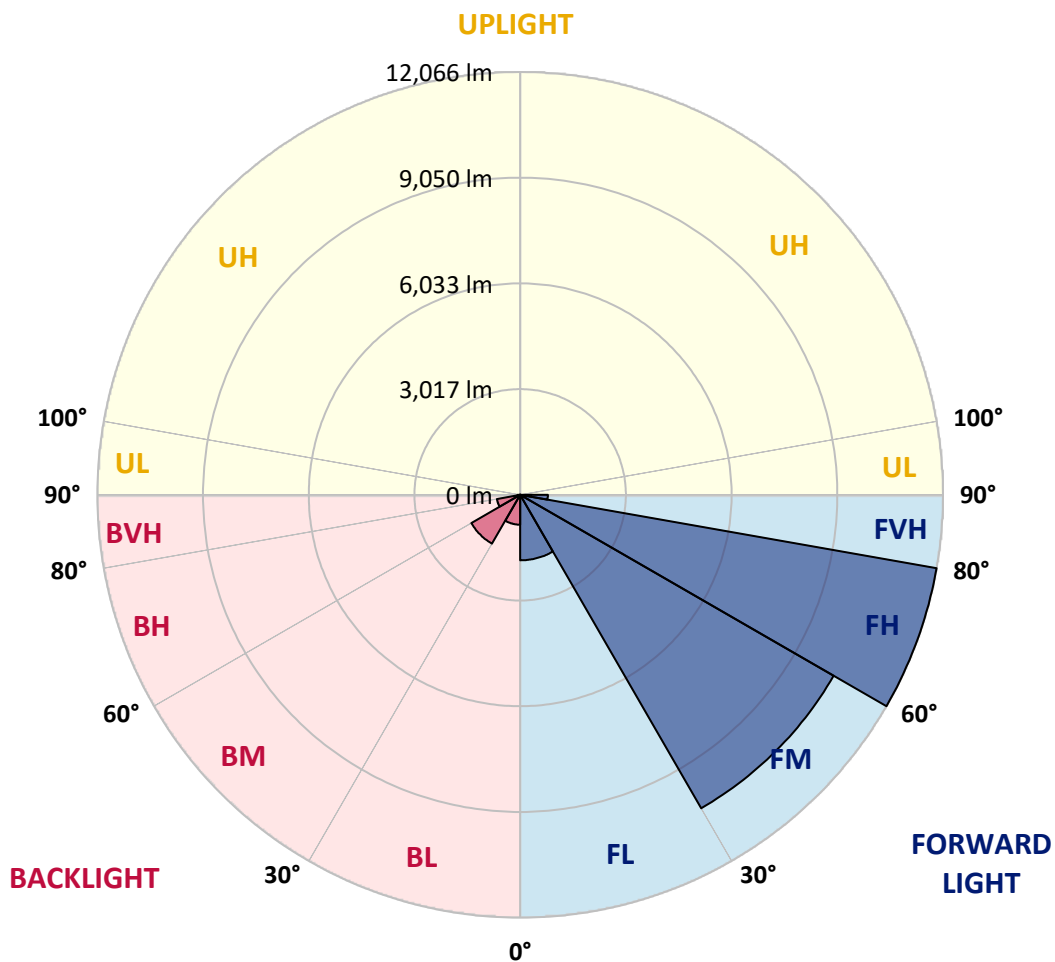
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1869.5	6.6			
FM	(30°-60°)	10328.4	36.5			
FH	(60°-80°)	12066.0	42.7			G5
FVH	(80°-90°)	790.0	2.8			G5
BL	(0°-30°)	852.9	3.0	B2/1000		
BM	(30°-60°)	1609.0	5.7	B2/2500		
BH	(60°-80°)	675.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	78.3	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°	4291.7	4291.7	4291.7	4291.7	4291.7	4291.7	4291.7	4291.7	4291.7	4291.7	4291.7
2.5°	4375.0	4373.6	4362.1	4353.5	4346.3	4343.4	4349.2	4327.6	4308.9	4285.9	4261.5
5°	4342.0	4340.5	4321.9	4304.6	4287.4	4281.6	4280.2	4241.4	4218.4	4183.9	4137.9
7.5°	4306.0	4298.9	4274.4	4245.7	4215.5	4201.1	4186.8	4136.4	4110.6	4076.1	4022.9
10°	4268.7	4260.1	4237.1	4208.3	4179.6	4158.0	4133.6	4084.7	4057.4	4031.5	3969.7
12.5°	4229.9	4222.7	4216.9	4204.0	4183.9	4165.2	4146.5	4104.8	4076.1	4045.9	3974.0
15°	4224.1	4221.2	4234.2	4242.8	4231.3	4219.8	4199.7	4163.8	4133.6	4103.4	4010.0
17.5°	4270.1	4268.7	4301.7	4324.7	4319.0	4298.9	4271.6	4231.3	4206.9	4181.0	4064.6
20°	4370.7	4377.9	4418.2	4448.3	4419.6	4390.8	4346.3	4290.2	4277.3	4265.8	4120.6
22.5°	4560.4	4567.6	4596.4	4607.9	4533.1	4491.5	4429.6	4357.8	4349.2	4357.8	4188.2
25°	4856.5	4849.3	4845.0	4801.9	4665.4	4600.7	4521.6	4446.9	4451.2	4490.0	4283.0
27.5°	5248.9	5210.1	5149.7	5020.4	4803.3	4731.5	4635.2	4566.2	4593.5	4668.2	4425.3
30°	5655.6	5612.5	5473.1	5261.8	4984.4	4905.4	4797.6	4720.0	4791.8	4909.7	4615.1
32.5°	6032.2	6026.5	5822.4	5550.7	5234.5	5165.5	5057.7	4970.1	5086.5	5266.1	4899.6
35°	6443.3	6456.2	6211.9	5885.6	5572.3	5500.4	5422.8	5356.7	5511.9	5759.1	5312.1
37.5°	6883.1	6908.9	6620.0	6252.1	5957.5	5927.3	5881.3	5852.5	6092.6	6434.6	5888.5
40°	7470.9	7445.0	7044.0	6666.0	6430.3	6428.9	6414.5	6449.0	6848.6	7317.1	6628.7
42.5°	8100.4	8024.2	7493.9	7110.1	6949.2	6998.0	7026.8	7167.6	7758.4	8389.3	7531.3
45°	8778.8	8607.8	7961.0	7580.1	7525.5	7629.0	7726.7	8032.9	8829.1	9609.6	8520.1
47.5°	9320.7	9155.4	8443.9	8073.1	8192.4	8349.1	8537.4	9021.7	10027.8	10870.0	9496.0
50°	9747.5	9639.7	8931.2	8648.0	8926.9	9168.3	9475.9	10141.3	11275.3	12097.5	10400.0
52.5°	10161.5	10081.0	9422.7	9237.3	9789.2	10122.7	10540.9	11342.9	12554.5	13304.8	11160.4
55°	10535.2	10477.7	9951.6	9971.7	10803.9	11238.0	11764.0	12711.2	13948.7	14381.3	11804.3
57.5°	10956.3	10883.0	10555.3	10893.0	12107.5	12670.9	13355.1	14249.0	15256.6	15338.5	12294.4
60°	11380.3	11317.0	11225.0	11956.6	13763.2	14355.4	15003.6	15739.5	16583.2	16081.6	12265.6
62.5°	11748.2	11755.4	11917.8	13073.4	15384.5	16070.1	16860.6	17587.8	17783.3	16210.9	11358.7
65°	12372.0	12485.5	12969.9	14654.4	17666.9	18583.8	19554.0	19437.6	18115.3	15002.2	9414.1
67.5°	13113.6	13313.4	14295.0	16761.4	20551.4	21768.8	22143.9	19855.8	16785.8	12195.2	6710.6
70°	13038.9	13313.4	14867.1	18332.3	22928.7	23745.0	22606.7	17970.1	13329.2	7966.8	3564.4
72.5°	11578.6	11971.0	13701.4	17612.2	22179.9	22108.0	19625.8	13396.7	7919.3	3199.4	1392.7
75°	8824.8	9221.5	10710.5	13914.2	17530.3	16926.7	13925.7	7400.5	3005.3	1270.5	878.2
77.5°	5076.4	5384.0	6533.8	8533.0	11121.6	10502.1	7751.2	3291.3	1463.1	885.4	685.6
80°	2834.3	3005.3	3703.8	4329.0	5450.1	4995.9	3468.1	2045.2	1092.3	642.5	528.9
82.5°	2240.7	2393.0	2995.3	2730.8	2489.3	2296.7	1992.0	1821.0	872.4	405.3	316.2
85°	1957.6	2102.7	2535.3	2150.1	1700.3	1559.4	1618.4	1792.3	678.4	244.3	270.2
87.5°	1813.8	2007.9	2259.4	1657.2	1323.7	1172.8	1493.3	1964.7	218.5	152.4	109.2
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°	4291.7	4291.7	4291.7	4291.7	4291.7	4291.7	4291.7	4291.7	4291.7	4291.7	4291.7
2.5°	4239.9	4216.9	4179.6	4146.5	4094.8	4067.5	4037.3	4015.7	3998.5	3984.1	4007.1
5°	4109.1	4066.0	3987.0	3902.2	3801.6	3722.5	3656.4	3594.6	3551.5	3522.7	3542.9
7.5°	3985.5	3915.1	3791.5	3637.7	3465.2	3318.6	3197.9	3091.6	3018.3	2970.8	2989.5
10°	3915.1	3827.4	3636.3	3394.8	3140.4	2911.9	2722.2	2558.3	2444.8	2380.1	2390.2
12.5°	3897.9	3784.3	3519.9	3187.9	2840.0	2522.4	2255.1	2028.0	1868.4	1785.1	1788.0
15°	3910.8	3765.6	3410.6	2989.5	2549.7	2148.7	1815.3	1539.3	1353.9	1259.0	1257.6
17.5°	3932.4	3751.3	3295.6	2775.4	2255.1	1789.4	1417.1	1146.9	983.1	906.9	901.2
20°	3955.4	3728.3	3166.3	2544.0	1948.9	1455.9	1109.6	898.3	794.8	753.1	750.3
22.5°	3988.4	3708.1	3032.6	2299.6	1648.5	1185.7	912.7	770.4	715.8	694.2	691.3
25°	4041.6	3698.1	2890.3	2045.2	1378.3	991.7	794.8	707.1	675.5	661.1	659.7
27.5°	4130.7	3712.5	2756.7	1798.0	1158.4	860.9	728.7	675.5	652.5	639.6	638.1
30°	4245.7	3757.0	2615.8	1563.7	987.4	771.8	688.4	654.0	635.3	622.3	622.3
32.5°	4436.8	3831.7	2467.8	1361.1	865.2	710.0	658.3	635.3	619.5	609.4	608.0
35°	4718.5	3972.6	2329.8	1192.9	777.6	665.5	632.4	615.1	603.7	597.9	597.9
37.5°	5128.2	4195.4	2207.6	1072.2	724.4	635.3	608.0	595.0	587.8	587.8	587.8
40°	5678.6	4503.0	2108.5	991.7	694.2	613.7	589.3	579.2	574.9	576.3	576.3
42.5°	6358.5	4902.5	2042.4	935.7	679.8	600.8	576.3	567.7	563.4	562.0	563.4
45°	7133.1	5356.7	2035.2	894.0	665.5	592.2	567.7	559.1	550.5	544.7	544.7
47.5°	7886.3	5818.0	2094.1	879.6	649.6	582.1	560.5	551.9	539.0	526.0	526.0
50°	8551.7	6210.4	2173.1	885.4	643.9	567.7	549.0	544.7	524.6	510.2	508.8
52.5°	9080.6	6512.2	2237.8	902.6	649.6	557.7	534.7	536.1	514.5	498.7	497.3
55°	9504.6	6710.6	2220.6	919.8	662.6	551.9	521.7	524.6	507.4	491.5	491.5
57.5°	9690.0	6637.3	2029.4	905.5	672.6	553.3	511.7	523.2	508.8	494.4	494.4
60°	9291.9	5986.2	1671.5	842.2	659.7	549.0	507.4	528.9	527.5	513.1	511.7
62.5°	8087.5	4820.6	1296.4	748.8	615.1	527.5	495.9	527.5	543.3	539.0	537.5
65°	6233.4	3433.6	990.3	648.2	554.8	491.5	465.7	494.4	516.0	521.7	520.3
67.5°	4045.9	2104.2	763.2	553.3	487.2	449.9	426.9	439.8	444.1	444.1	441.2
70°	1989.2	1132.6	608.0	465.7	418.2	405.3	392.4	385.2	378.0	372.3	372.3
72.5°	981.7	740.2	500.2	393.8	360.8	355.0	352.1	343.5	337.8	330.6	327.7
75°	725.8	602.2	425.4	332.0	310.4	304.7	310.4	303.3	301.8	296.1	293.2
77.5°	596.5	513.1	366.5	284.6	265.9	255.8	264.5	265.9	267.3	258.7	255.8
80°	484.4	434.1	306.1	235.7	218.5	211.3	217.0	228.5	231.4	218.5	212.7
82.5°	349.3	355.0	247.2	184.0	169.6	163.8	175.3	189.7	192.6	173.9	169.6
85°	293.2	296.1	189.7	130.8	116.4	107.8	126.5	140.9	150.9	132.2	127.9
87.5°	122.2	173.9	109.2	73.3	64.7	56.1	67.6	74.7	90.5	83.4	81.9
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)