

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: P193643

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193643
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-05-LED-E1-SL2-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 26088 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

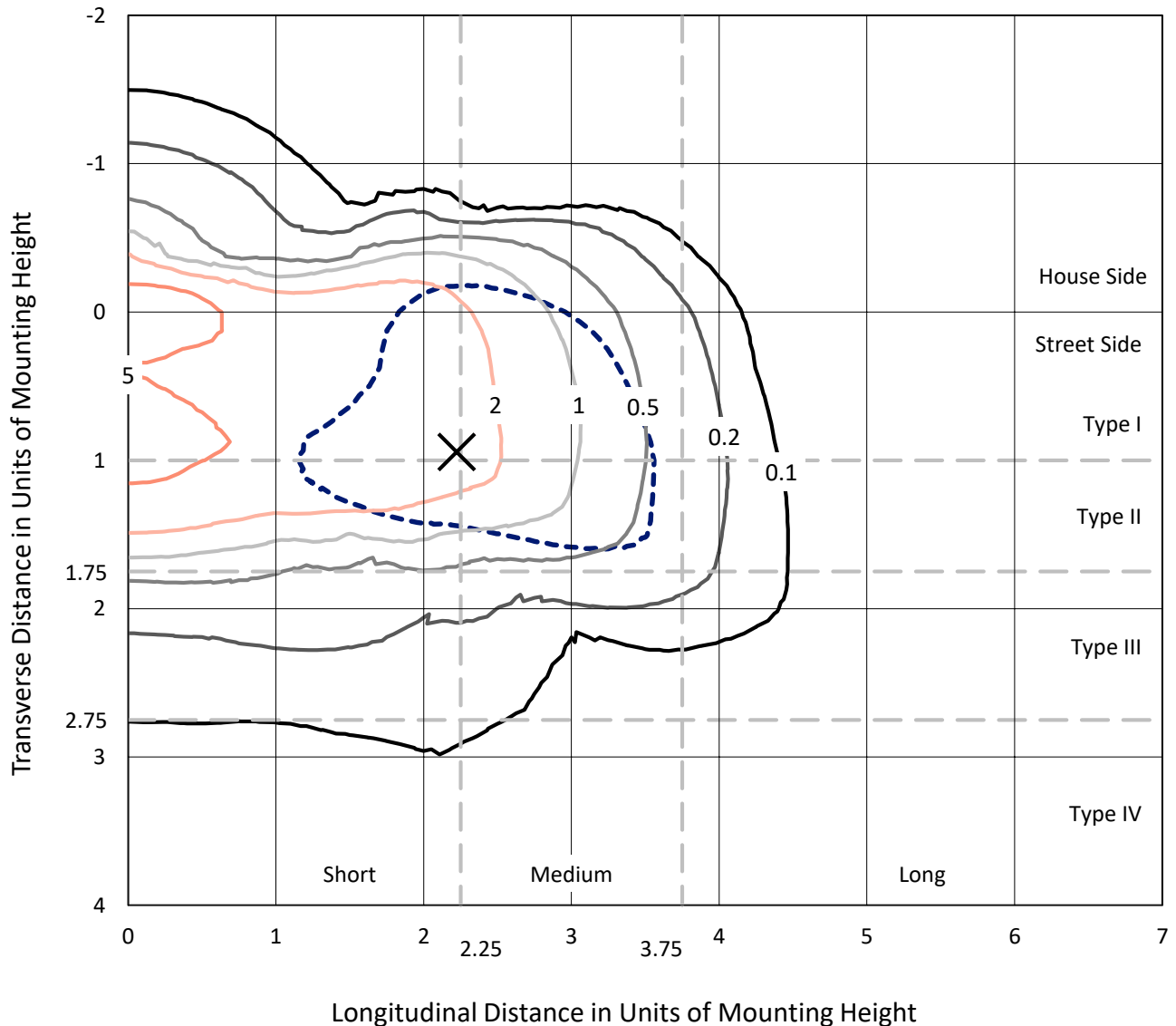


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

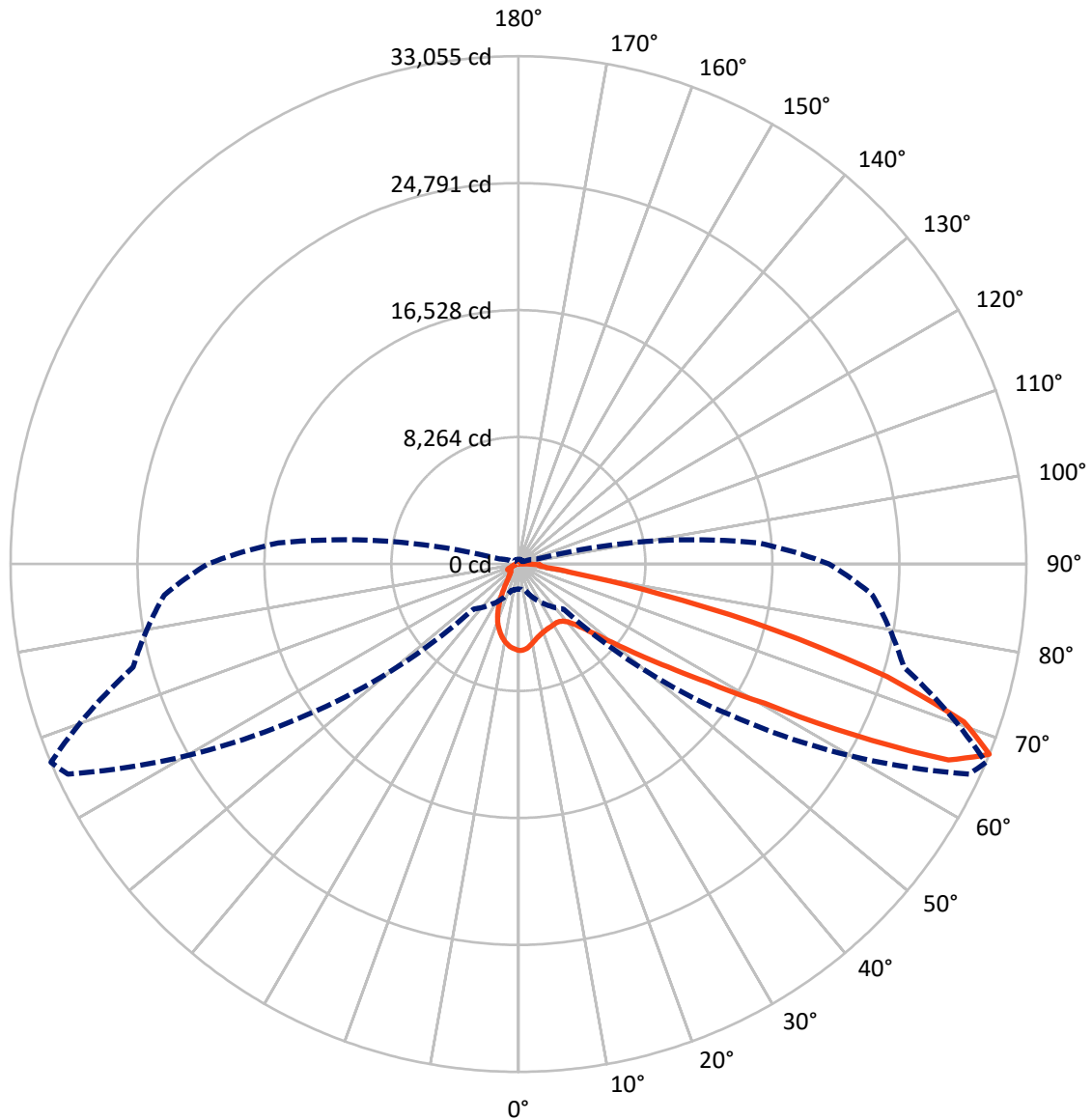


Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - Semi-Cutoff

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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	4322.5	0.0	4322.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	21765.5	0.0	21765.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	26088.0	0.0	26088.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.1	1.8
10°-20°	1110.8	4.3
20°-30°	1505.7	5.8
30°-40°	2140.6	8.2
40°-50°	3581.3	13.7
50°-60°	5665.5	21.7
60°-70°	7217.3	27.7
70°-80°	3780.4	14.5
80°-90°	606.3	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°	26088.0	100.0
0°-180°	26088.0	100.0



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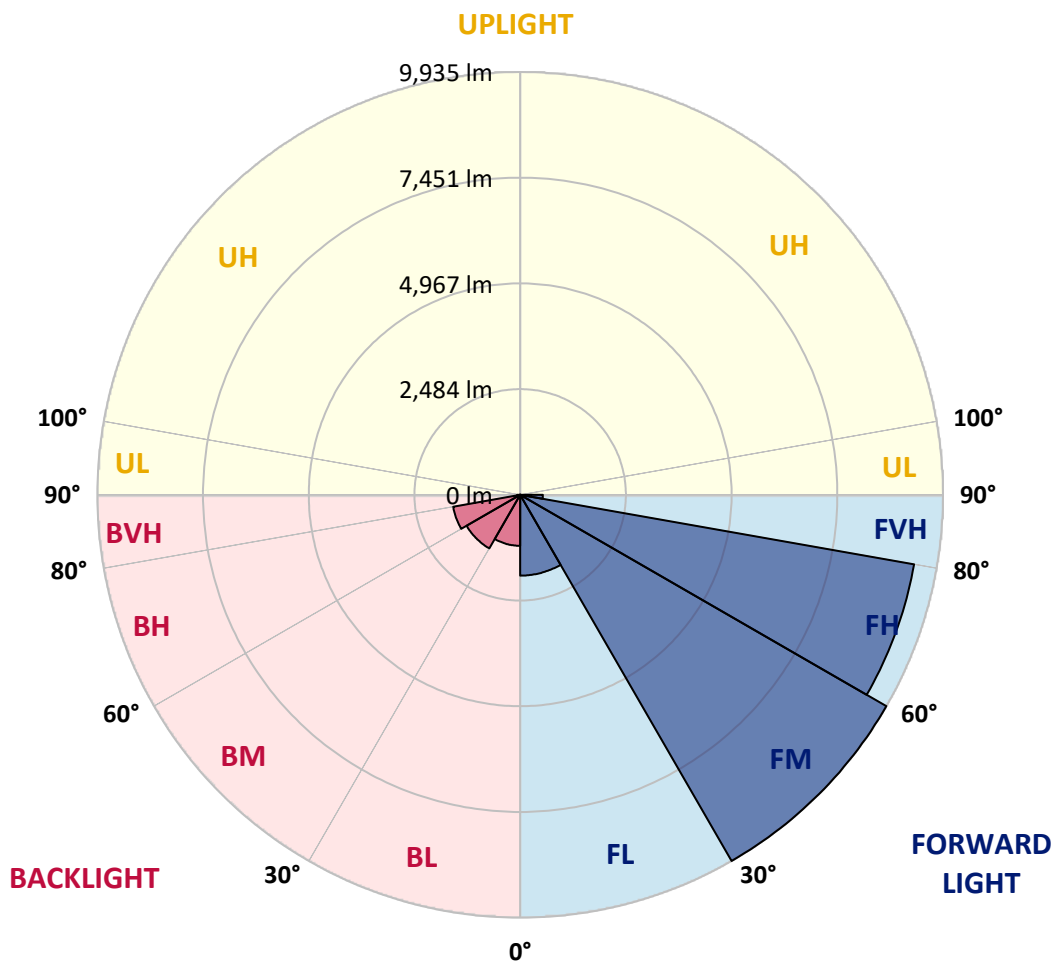
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1898.6	7.3			
FM	(30°-60°)	9934.9	38.1			
FH	(60°-80°)	9399.0	36.0			G4/12000
FVH	(80°-90°)	533.1	2.0			G4/750
BL	(0°-30°)	1198.1	4.6	B3/2500		
BM	(30°-60°)	1452.5	5.6	B2/2500		
BH	(60°-80°)	1598.7	6.1	B3/2500		G3/2500
BVH	(80°-90°)	73.2	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5627.1	5627.1	5627.1	5627.1	5627.1	5627.1	5627.1	5627.1	5627.1	5627.1	5627.1
2.5°	5395.5	5404.6	5432.9	5450.9	5531.9	5566.7	5591.1	5615.5	5619.4	5631.0	5619.4
5°	4829.5	4848.8	4901.5	4960.7	5117.7	5241.2	5371.1	5506.2	5530.6	5618.1	5642.6
7.5°	4390.8	4385.7	4429.4	4500.2	4661.0	4832.1	5059.8	5328.7	5381.4	5578.2	5673.4
10°	4070.5	4066.6	4112.9	4186.2	4339.3	4501.4	4758.7	5126.7	5201.3	5515.2	5703.0
12.5°	3833.7	3835.0	3881.3	3962.4	4118.1	4281.4	4542.6	4931.1	5026.3	5441.9	5733.9
15°	3676.8	3687.1	3724.4	3810.6	3962.4	4125.8	4381.8	4784.5	4891.2	5384.0	5768.6
17.5°	3624.0	3640.8	3653.6	3716.7	3846.6	4010.0	4260.9	4676.4	4789.6	5344.1	5799.5
20°	3672.9	3692.2	3667.8	3689.7	3772.0	3916.1	4165.7	4591.5	4707.3	5299.1	5803.4
22.5°	3882.6	3900.6	3828.6	3765.6	3760.4	3847.9	4087.2	4524.6	4644.2	5265.6	5804.7
25°	4251.9	4263.4	4142.5	3995.8	3853.0	3823.5	4031.9	4478.3	4605.6	5236.0	5780.2
27.5°	4704.7	4713.7	4574.8	4358.6	4071.7	3881.3	4012.6	4451.3	4583.8	5210.3	5739.0
30°	5255.3	5297.8	5111.2	4838.5	4420.4	4052.5	4051.2	4437.1	4559.3	5166.6	5658.0
32.5°	5818.8	5836.8	5708.2	5431.6	4890.0	4353.5	4159.2	4447.4	4552.9	5113.8	5555.1
35°	6390.0	6413.2	6329.5	6107.0	5531.9	4794.8	4370.2	4507.9	4592.8	5095.8	5483.0
37.5°	7129.7	7160.6	7044.8	6787.5	6312.8	5393.0	4721.4	4659.7	4715.0	5147.3	5461.2
40°	8299.2	8285.0	7946.7	7563.3	7167.0	6158.4	5223.2	4917.0	4949.1	5313.2	5528.1
42.5°	9660.3	9625.5	9042.8	8440.7	8106.2	7084.7	5887.0	5363.4	5357.0	5640.0	5763.5
45°	10746.1	10717.8	10192.9	9450.6	9183.0	8139.6	6745.1	6028.5	5980.9	6158.4	6198.3
47.5°	11334.0	11335.3	11033.0	10427.0	10420.6	9480.2	7847.6	6990.8	6908.5	6992.1	6949.6
50°	11128.2	11155.2	11123.0	10930.0	11550.1	11237.5	9287.2	8332.6	8166.7	8249.0	8085.6
52.5°	10132.4	10167.1	10357.6	10653.4	12024.8	13361.5	11402.2	9999.9	9806.9	9777.3	9595.9
55°	8367.3	8409.8	8798.3	9602.4	11629.9	14788.2	14739.3	12125.2	11817.7	11538.6	11461.4
57.5°	5767.3	5838.1	6463.3	7657.2	10352.4	15219.2	18713.3	15154.9	14529.6	13554.5	13572.5
60°	3251.0	3333.3	4070.5	5155.0	7774.3	14750.9	21736.6	19743.8	18423.9	15915.2	16049.0
62.5°	2067.4	2156.2	2715.8	3581.6	4664.8	12229.4	22975.5	26123.5	24447.2	18825.2	18956.5
65°	1673.7	1712.3	1976.1	2956.4	3387.3	7367.7	22035.0	31378.8	30753.6	22518.8	21906.4
67.5°	1633.8	1646.7	1783.1	2481.6	3248.4	4141.2	17576.1	32361.7	33055.1	25967.8	23135.0
70°	1614.5	1659.6	2009.5	2368.4	3110.7	3492.8	10562.1	29667.8	30762.6	26869.7	21499.9
72.5°	783.5	780.9	1011.2	2142.0	3504.4	3622.8	5426.4	24004.7	25103.3	23279.1	17667.4
75°	631.7	577.6	551.9	784.8	3369.3	3741.1	3458.1	16517.3	17312.3	15607.7	10860.6
77.5°	599.5	535.2	490.2	491.4	1424.1	3967.5	2929.3	9141.8	9373.4	7050.0	2975.7
80°	496.6	437.4	405.2	456.7	689.6	3778.4	3167.3	4137.4	3796.4	1731.6	990.6
82.5°	344.8	313.9	304.9	383.4	551.9	2692.6	3683.2	2223.1	1864.1	867.1	611.1
85°	220.0	187.8	208.4	279.2	429.7	1242.8	3793.9	1732.9	1377.8	550.6	344.8
87.5°	101.6	82.3	102.9	154.4	280.5	428.4	3609.9	1946.5	1419.0	290.7	217.4
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°	5627.1	5627.1	5627.1	5627.1	5627.1	5627.1	5627.1	5627.1	5627.1	5627.1	5627.1
2.5°	5629.7	5605.2	5585.9	5549.9	5510.0	5471.5	5436.7	5393.0	5380.1	5368.5	5386.5
5°	5647.7	5623.3	5552.5	5441.9	5319.6	5205.1	5090.7	4992.9	4932.4	4899.0	4918.3
7.5°	5674.7	5640.0	5493.3	5290.1	5070.1	4869.4	4662.2	4496.3	4374.1	4316.2	4332.9
10°	5699.2	5632.3	5393.0	5088.1	4766.5	4468.0	4141.2	3871.1	3670.4	3564.9	3590.6
12.5°	5709.5	5602.7	5252.7	4835.9	4394.7	3957.3	3476.1	3072.1	2784.0	2678.5	2656.6
15°	5719.7	5569.2	5098.4	4549.0	3945.7	3326.9	2652.7	2169.0	1929.7	1877.0	1865.4
17.5°	5722.3	5511.3	4923.4	4237.7	3419.5	2576.8	1814.0	1506.5	1507.8	1592.7	1603.0
20°	5695.3	5425.1	4711.1	3850.5	2789.1	1781.8	1245.3	1192.6	1386.8	1599.1	1624.8
22.5°	5633.6	5310.6	4470.6	3398.9	2067.4	1173.3	963.6	1021.5	1272.3	1532.2	1561.8
25°	5555.1	5171.7	4186.2	2875.3	1368.8	838.8	807.9	878.7	1048.5	1222.2	1238.9
27.5°	5448.3	5007.0	3867.2	2275.8	889.0	690.8	711.4	759.0	828.5	905.7	913.4
30°	5310.6	4810.2	3526.3	1659.6	671.5	621.4	651.0	676.7	706.3	750.0	753.9
32.5°	5152.4	4621.1	3176.3	1146.3	595.6	585.4	608.5	621.4	644.5	671.5	674.1
35°	5019.9	4441.0	2813.6	810.5	563.5	558.3	573.8	578.9	600.8	630.4	633.0
37.5°	4944.0	4294.3	2439.2	653.5	541.6	533.9	542.9	542.9	573.8	617.5	623.9
40°	4949.1	4213.3	2064.8	590.5	523.6	513.3	514.6	514.6	554.5	602.1	605.9
42.5°	5089.4	4233.8	1732.9	566.1	509.5	497.9	491.4	495.3	528.7	559.6	562.2
45°	5418.7	4379.2	1421.6	550.6	495.3	491.4	477.3	476.0	488.9	503.0	503.0
47.5°	5959.0	4666.1	1210.6	540.3	483.7	482.4	465.7	449.0	447.7	452.8	452.8
50°	6837.7	5160.1	1069.1	528.7	476.0	465.7	446.4	420.7	411.7	415.5	415.5
52.5°	8155.1	6041.4	1015.0	513.3	459.3	442.6	420.7	395.0	387.2	388.5	388.5
55°	9882.8	7394.8	1007.3	495.3	441.3	414.3	396.2	376.9	367.9	370.5	370.5
57.5°	11994.0	9266.6	1145.0	467.0	416.8	385.9	375.7	362.8	356.4	360.2	358.9
60°	14560.5	11716.1	1698.2	437.4	392.4	360.2	360.2	349.9	344.8	348.6	347.4
62.5°	17516.9	14529.6	2387.7	415.5	366.7	339.6	344.8	339.6	334.5	337.1	335.8
65°	20138.8	16362.9	2235.9	398.8	340.9	320.3	329.3	326.8	322.9	325.5	324.2
67.5°	20214.7	15683.6	1255.6	380.8	316.5	301.0	313.9	312.6	310.0	312.6	311.3
70°	18040.5	13243.2	707.6	347.4	290.7	277.9	295.9	294.6	292.0	297.2	295.9
72.5°	14453.7	9610.1	517.2	306.2	265.0	253.4	274.0	272.7	272.7	280.5	276.6
75°	8317.2	4945.3	413.0	262.4	238.0	229.0	247.0	248.3	250.9	261.2	253.4
77.5°	2371.0	1541.2	337.1	222.6	204.6	200.7	218.7	221.3	222.6	234.1	223.8
80°	881.2	710.1	277.9	186.5	167.2	168.5	185.3	189.1	190.4	202.0	189.1
82.5°	562.2	468.3	225.1	144.1	131.2	129.9	150.5	155.7	155.7	157.0	149.2
85°	328.1	280.5	169.8	104.2	92.6	88.8	111.9	120.9	117.1	114.5	109.4
87.5°	220.0	193.0	104.2	57.9	50.2	47.6	65.6	72.0	69.5	65.6	61.8
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)