

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: P191102

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191102
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-04-LED-E1-SL2-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 26396.2 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

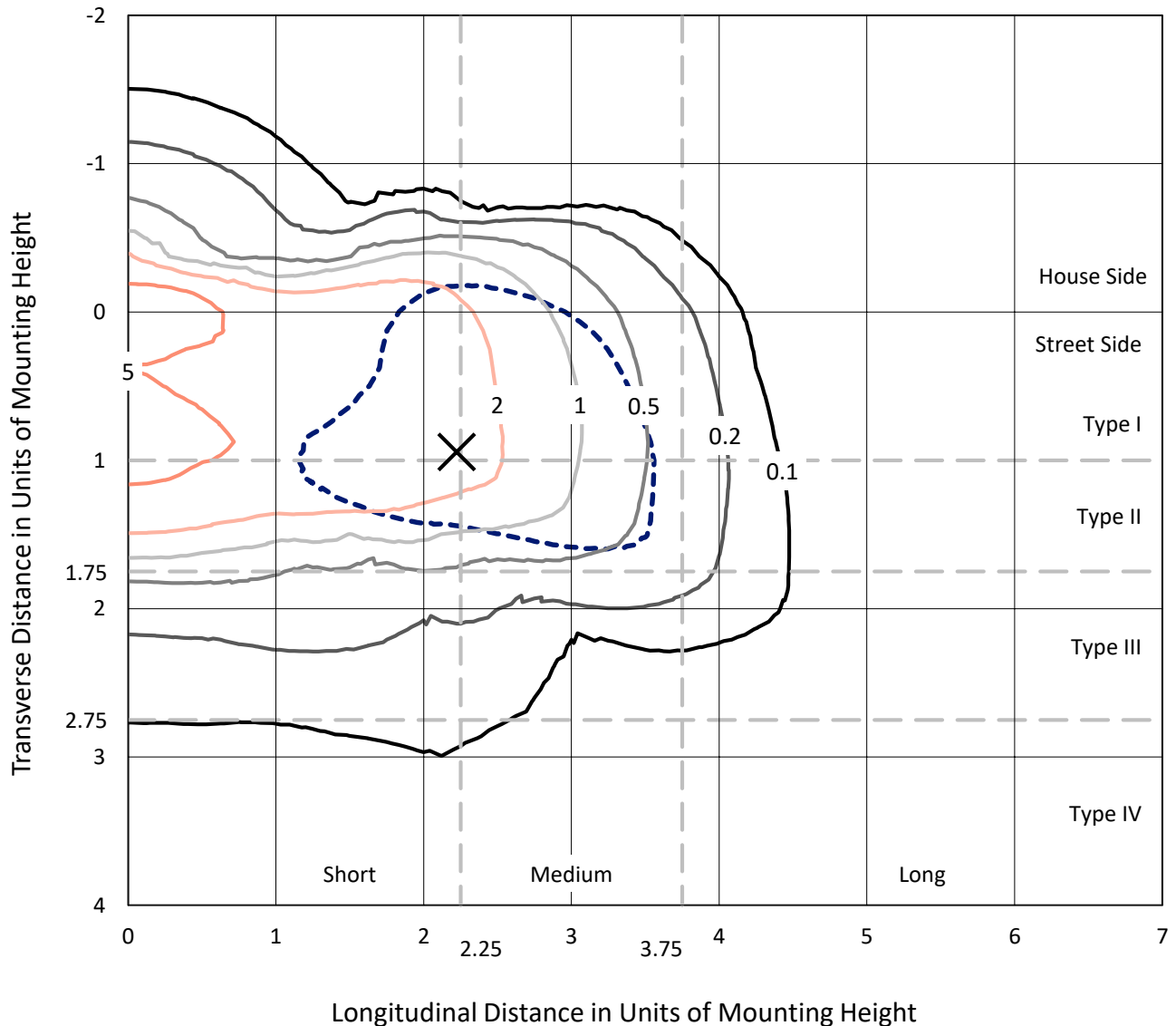
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191102
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Iso-Footcandle Lines of Horizontal Illumination

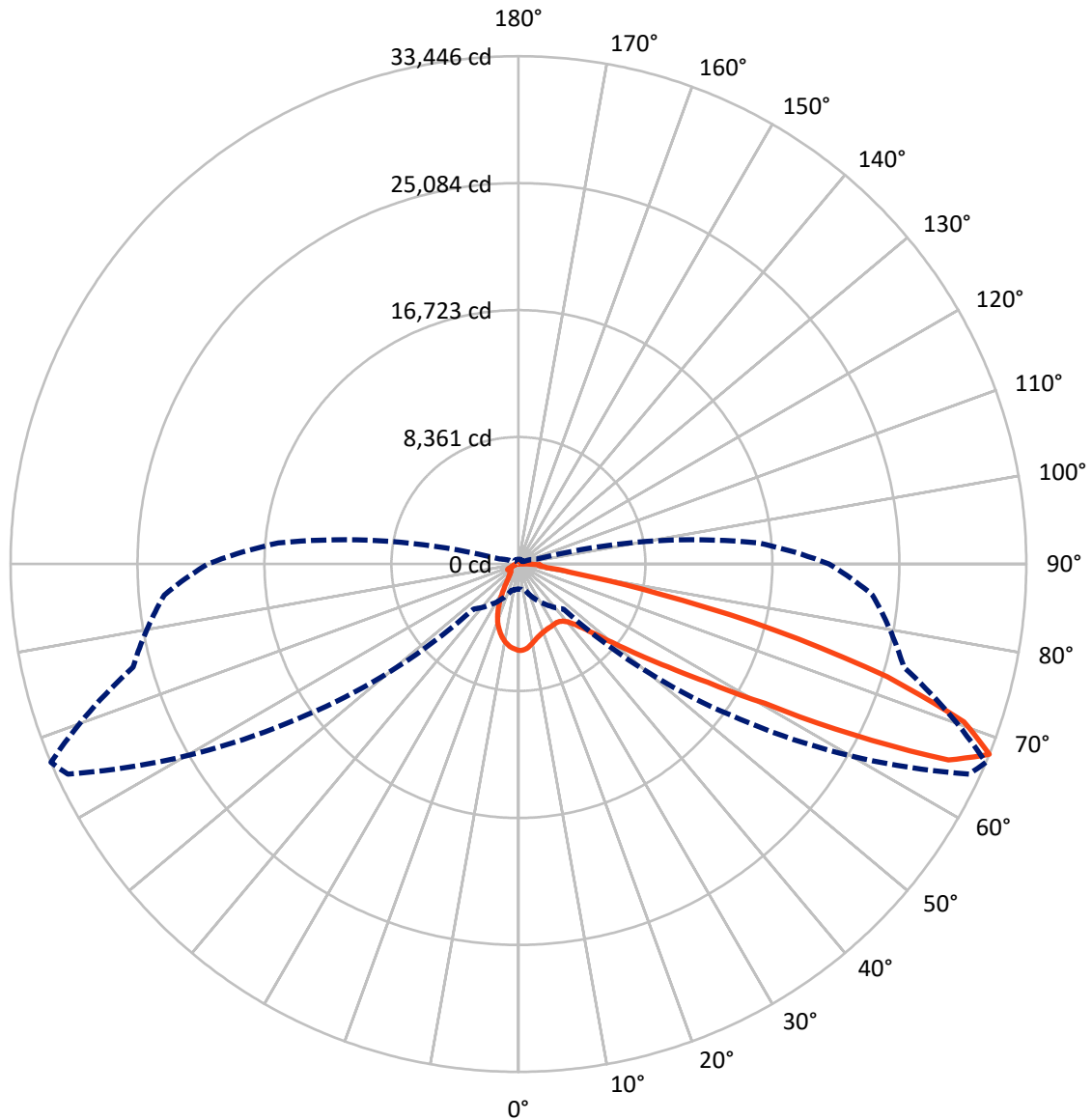
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191102
CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-1200

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	4373.6	0.0	4373.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	22022.7	0.0	22022.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	26396.2	0.0	26396.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.8	1.8
10°-20°	1123.9	4.3
20°-30°	1523.5	5.8
30°-40°	2165.9	8.2
40°-50°	3623.6	13.7
50°-60°	5732.4	21.7
60°-70°	7302.6	27.7
70°-80°	3825.1	14.5
80°-90°	613.5	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°	26396.2	100.0
0°-180°	26396.2	100.0

Coefficient of Utilization



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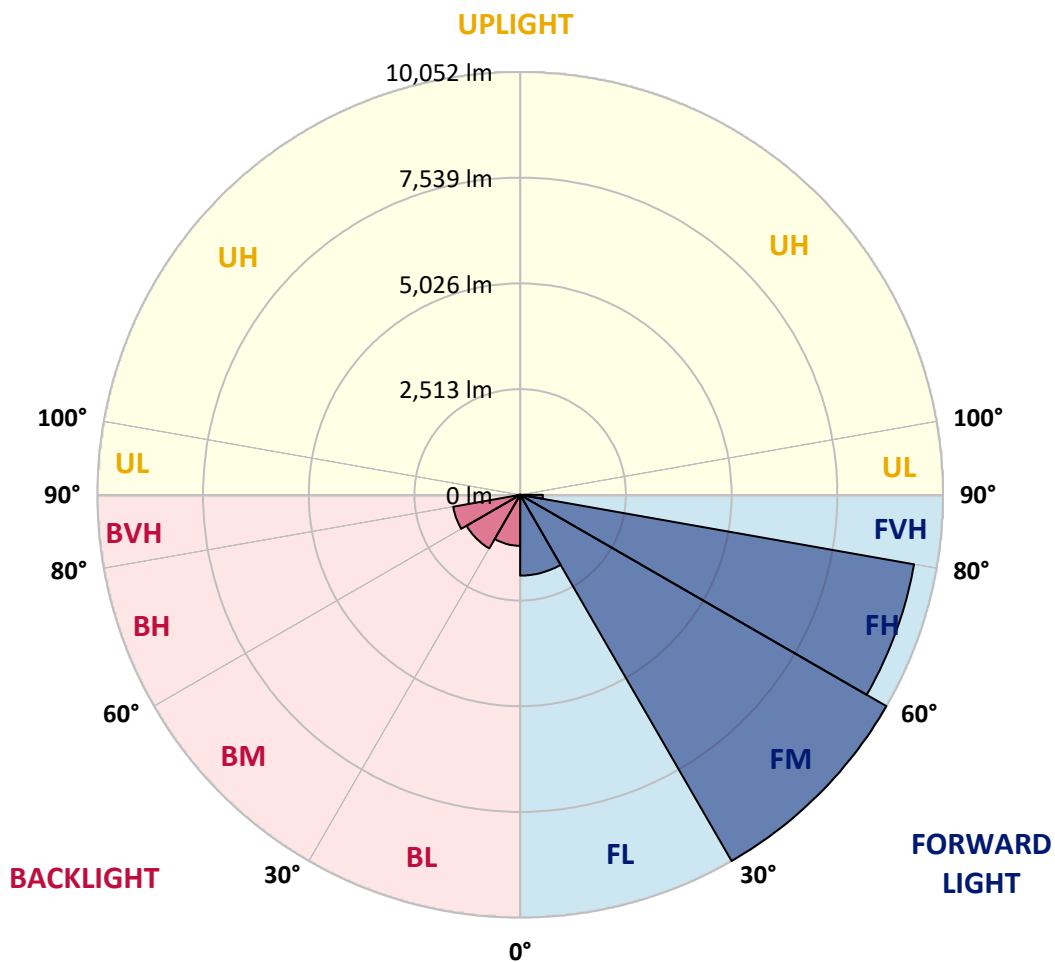
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1921.0	7.3			
FM	(30°-60°)	10052.2	38.1			
FH	(60°-80°)	9510.0	36.0			G4/12000
FVH	(80°-90°)	539.4	2.0			G4/750
BL	(0°-30°)	1212.2	4.6	B3/2500		
BM	(30°-60°)	1469.6	5.6	B2/2500		
BH	(60°-80°)	1617.6	6.1	B3/2500		G3/2500
BVH	(80°-90°)	74.0	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°	5693.6	5693.6	5693.6	5693.6	5693.6	5693.6	5693.6	5693.6	5693.6	5693.6	5693.6
2.5°	5459.3	5468.4	5497.0	5515.2	5597.3	5632.5	5657.1	5681.9	5685.8	5697.5	5685.8
5°	4886.5	4906.1	4959.5	5019.3	5178.2	5303.1	5434.5	5571.2	5596.0	5684.5	5709.2
7.5°	4442.7	4437.5	4481.8	4553.4	4716.0	4889.2	5119.6	5391.6	5445.0	5644.1	5740.5
10°	4118.5	4114.6	4161.5	4235.7	4390.6	4554.6	4814.9	5187.3	5262.8	5580.4	5770.4
12.5°	3879.0	3880.4	3927.2	4009.3	4166.7	4332.0	4596.3	4989.3	5085.7	5506.1	5801.7
15°	3720.3	3730.6	3768.4	3855.6	4009.3	4174.6	4433.6	4841.0	4949.0	5447.6	5836.8
17.5°	3666.9	3683.7	3696.8	3760.6	3892.0	4057.3	4311.2	4731.7	4846.2	5407.2	5868.1
20°	3716.4	3735.8	3711.2	3733.3	3816.5	3962.4	4214.9	4645.7	4762.9	5361.7	5871.9
22.5°	3928.5	3946.7	3873.8	3810.1	3804.9	3893.4	4135.5	4578.0	4699.1	5327.8	5873.3
25°	4302.1	4313.8	4191.4	4043.0	3898.6	3868.6	4079.5	4531.2	4660.0	5297.9	5848.5
27.5°	4760.3	4769.4	4628.9	4410.1	4119.8	3927.2	4060.0	4503.8	4638.0	5271.9	5806.9
30°	5317.4	5360.4	5171.6	4895.6	4472.6	4100.3	4099.1	4489.5	4613.2	5227.6	5724.8
32.5°	5887.6	5905.8	5775.6	5495.7	4947.7	4404.9	4208.4	4500.0	4606.7	5174.2	5620.7
35°	6465.5	6488.9	6404.3	6179.1	5597.3	4851.4	4421.8	4561.1	4647.1	5156.0	5547.8
37.5°	7214.0	7245.3	7128.0	6867.7	6387.4	5456.7	4777.2	4714.7	4770.7	5208.0	5525.7
40°	8397.2	8382.9	8040.6	7652.7	7251.7	6231.2	5284.9	4975.0	5007.7	5376.0	5593.4
42.5°	9774.4	9739.3	9149.6	8540.4	8201.9	7168.4	5956.5	5426.8	5420.2	5706.6	5831.5
45°	10873.0	10844.4	10313.3	9562.2	9291.5	8235.8	6824.8	6099.8	6051.6	6231.2	6271.5
47.5°	11467.9	11469.2	11163.4	10550.2	10543.7	9592.2	7940.3	7073.4	6990.1	7074.7	7031.8
50°	11259.6	11286.9	11254.4	11059.2	11686.6	11370.3	9396.9	8431.1	8263.1	8346.5	8181.2
52.5°	10252.1	10287.3	10479.9	10779.3	12166.9	13519.4	11536.9	10118.0	9922.8	9892.9	9709.3
55°	8466.2	8509.1	8902.2	9715.8	11767.3	14962.9	14913.5	12268.5	11957.4	11674.8	11596.8
57.5°	5835.5	5907.0	6539.7	7747.6	10474.7	15399.0	18934.4	15333.9	14701.3	13714.6	13732.8
60°	3289.4	3372.7	4118.5	5215.9	7866.1	14925.2	21993.3	19977.1	18641.5	16103.2	16238.6
62.5°	2091.8	2181.6	2747.9	3623.9	4719.9	12373.9	23247.0	26432.1	24736.1	19047.7	19180.4
65°	1693.5	1732.6	1999.4	2991.3	3427.4	7454.8	22295.4	31749.5	31116.9	22784.8	22165.2
67.5°	1653.2	1666.2	1804.2	2510.9	3286.7	4190.1	17783.7	32744.0	33445.7	26274.7	23408.3
70°	1633.7	1679.2	2033.2	2396.4	3147.5	3534.1	10686.9	30018.3	31126.0	27187.2	21753.9
72.5°	792.7	790.1	1023.2	2167.3	3545.9	3665.5	5490.6	24288.2	25399.9	23554.2	17876.2
75°	639.1	584.4	558.4	794.0	3409.1	3785.3	3498.9	16712.5	17516.9	15792.1	10988.8
77.5°	606.6	541.6	495.9	497.3	1440.9	4014.5	2964.0	9249.8	9484.1	7133.2	3010.9
80°	502.5	442.5	410.0	462.1	697.8	3823.1	3204.8	4186.2	3841.3	1752.1	1002.3
82.5°	348.8	317.6	308.5	387.9	558.4	2724.4	3726.7	2249.4	1886.1	877.4	618.3
85°	222.6	190.1	210.8	282.4	434.8	1257.4	3838.7	1753.3	1394.1	557.1	348.8
87.5°	102.8	83.3	104.1	156.2	283.8	433.4	3652.5	1969.5	1435.8	294.2	220.0
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°	5693.6	5693.6	5693.6	5693.6	5693.6	5693.6	5693.6	5693.6	5693.6	5693.6	5693.6
2.5°	5696.2	5671.4	5651.9	5615.5	5575.2	5536.1	5500.9	5456.7	5443.6	5432.0	5450.2
5°	5714.4	5689.7	5618.1	5506.1	5382.5	5266.7	5150.8	5051.8	4990.7	4956.8	4976.3
7.5°	5741.7	5706.6	5558.2	5352.6	5130.0	4926.9	4717.3	4549.4	4425.8	4367.2	4384.1
10°	5766.5	5698.8	5456.7	5148.2	4822.8	4520.7	4190.1	3916.8	3713.7	3607.0	3633.0
12.5°	5776.9	5668.9	5314.8	4893.1	4446.6	4004.0	3517.2	3108.4	2816.9	2710.1	2688.0
15°	5787.3	5635.0	5158.6	4602.8	3992.3	3366.2	2684.1	2194.6	1952.5	1899.2	1887.4
17.5°	5789.9	5576.4	4981.6	4287.8	3459.9	2607.3	1835.4	1524.3	1525.6	1611.5	1621.9
20°	5762.6	5489.3	4766.7	3896.0	2822.1	1802.8	1260.1	1206.7	1403.2	1618.0	1644.1
22.5°	5700.1	5373.4	4523.4	3439.1	2091.8	1187.1	975.0	1033.6	1287.4	1550.3	1580.3
25°	5620.7	5232.8	4235.7	2909.3	1385.0	848.7	817.4	889.0	1060.9	1236.6	1253.5
27.5°	5512.7	5066.2	3912.9	2302.7	899.5	699.0	719.9	768.0	838.3	916.4	924.2
30°	5373.4	4867.0	3568.0	1679.2	679.4	628.7	658.7	684.7	714.6	758.9	762.8
32.5°	5213.3	4675.7	3213.9	1159.8	602.7	592.3	615.7	628.7	652.1	679.4	682.1
35°	5079.2	4493.4	2846.8	820.1	570.1	565.0	580.5	585.7	607.9	637.8	640.5
37.5°	5002.4	4345.1	2468.0	661.2	548.0	540.2	549.3	549.3	580.5	624.8	631.4
40°	5007.7	4263.0	2089.2	597.5	529.8	519.4	520.7	520.7	561.0	609.2	613.1
42.5°	5149.5	4283.9	1753.3	572.8	515.5	503.8	497.3	501.1	535.0	566.2	568.9
45°	5482.7	4430.9	1438.4	557.1	501.1	497.3	482.9	481.6	494.6	508.9	508.9
47.5°	6029.5	4721.2	1224.9	546.7	489.5	488.2	471.2	454.3	453.0	458.2	458.2
50°	6918.5	5221.0	1081.7	535.0	481.6	471.2	451.7	425.6	416.5	420.4	420.4
52.5°	8251.4	6112.7	1027.0	519.4	464.7	447.7	425.6	399.7	391.8	393.1	393.1
55°	9999.5	7482.2	1019.3	501.1	446.5	419.1	400.9	381.4	372.3	374.9	374.9
57.5°	12135.7	9376.1	1158.5	472.5	421.8	390.5	380.1	367.0	360.6	364.5	363.1
60°	14732.5	11854.5	1718.3	442.5	397.0	364.5	364.5	354.0	348.8	352.7	351.5
62.5°	17723.9	14701.3	2415.9	420.4	371.0	343.6	348.8	343.6	338.4	341.1	339.7
65°	20376.7	16556.3	2262.4	403.6	344.9	324.1	333.3	330.6	326.7	329.3	328.1
67.5°	20453.5	15868.9	1270.4	385.3	320.2	304.6	317.6	316.3	313.7	316.3	315.0
70°	18253.6	13399.6	716.0	351.5	294.2	281.2	299.4	298.1	295.5	300.6	299.4
72.5°	14624.5	9723.7	523.2	309.9	268.1	256.5	277.2	276.0	276.0	283.8	279.9
75°	8415.4	5003.7	417.9	265.6	240.8	231.7	249.9	251.2	253.8	264.2	256.5
77.5°	2399.0	1559.4	341.1	225.2	206.9	203.1	221.3	223.9	225.2	236.9	226.5
80°	891.7	718.5	281.2	188.7	169.2	170.5	187.4	191.4	192.6	204.4	191.4
82.5°	568.9	473.8	227.8	145.8	132.8	131.4	152.3	157.5	157.5	158.8	151.0
85°	331.9	283.8	171.9	105.5	93.7	89.8	113.2	122.3	118.5	115.9	110.7
87.5°	222.6	195.3	105.5	58.6	50.7	48.2	66.4	72.9	70.3	66.4	62.5
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)