

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: P191036

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL2-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26631.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 257
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

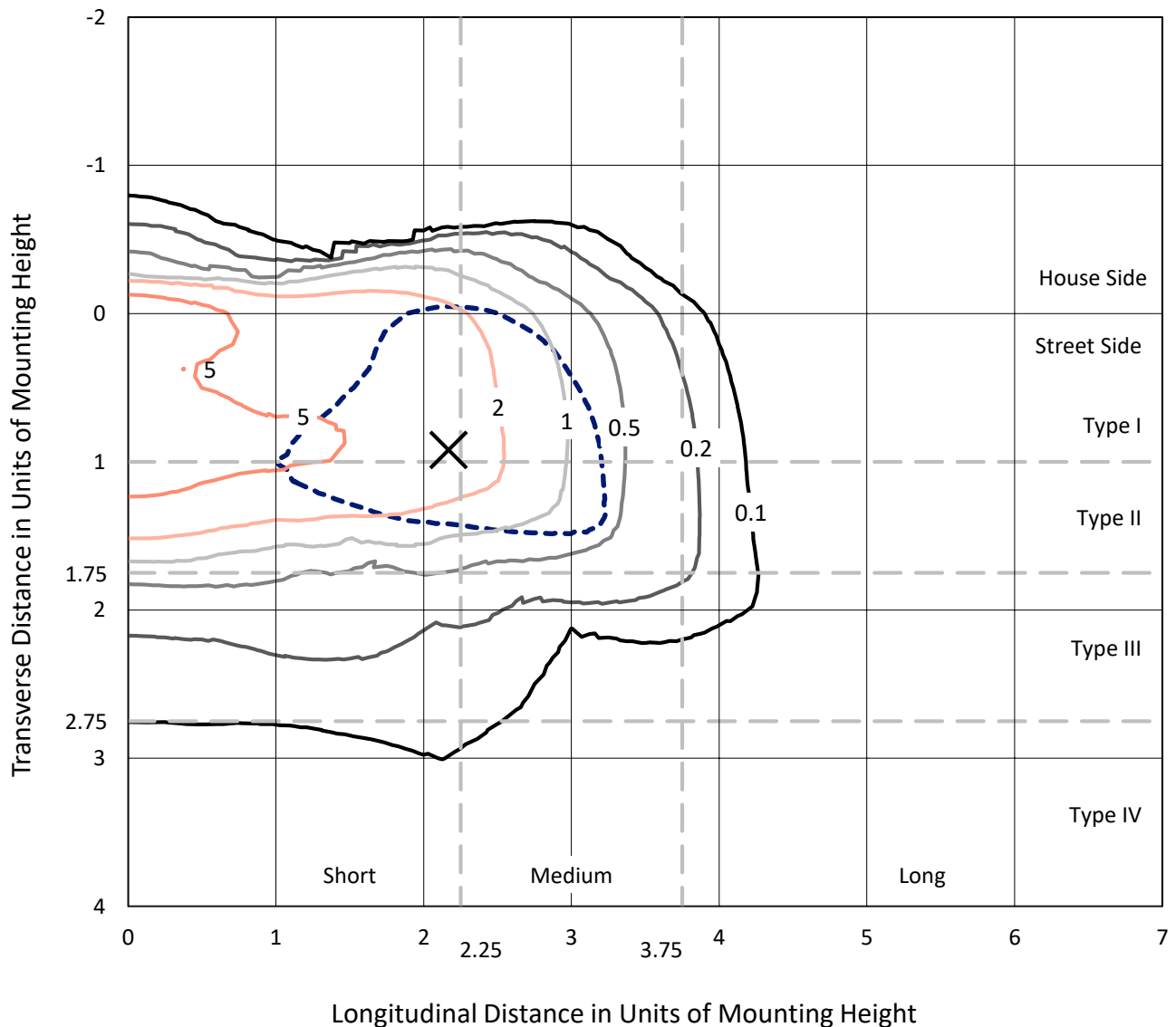


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Iso-Footcandle Lines of Horizontal Illumination

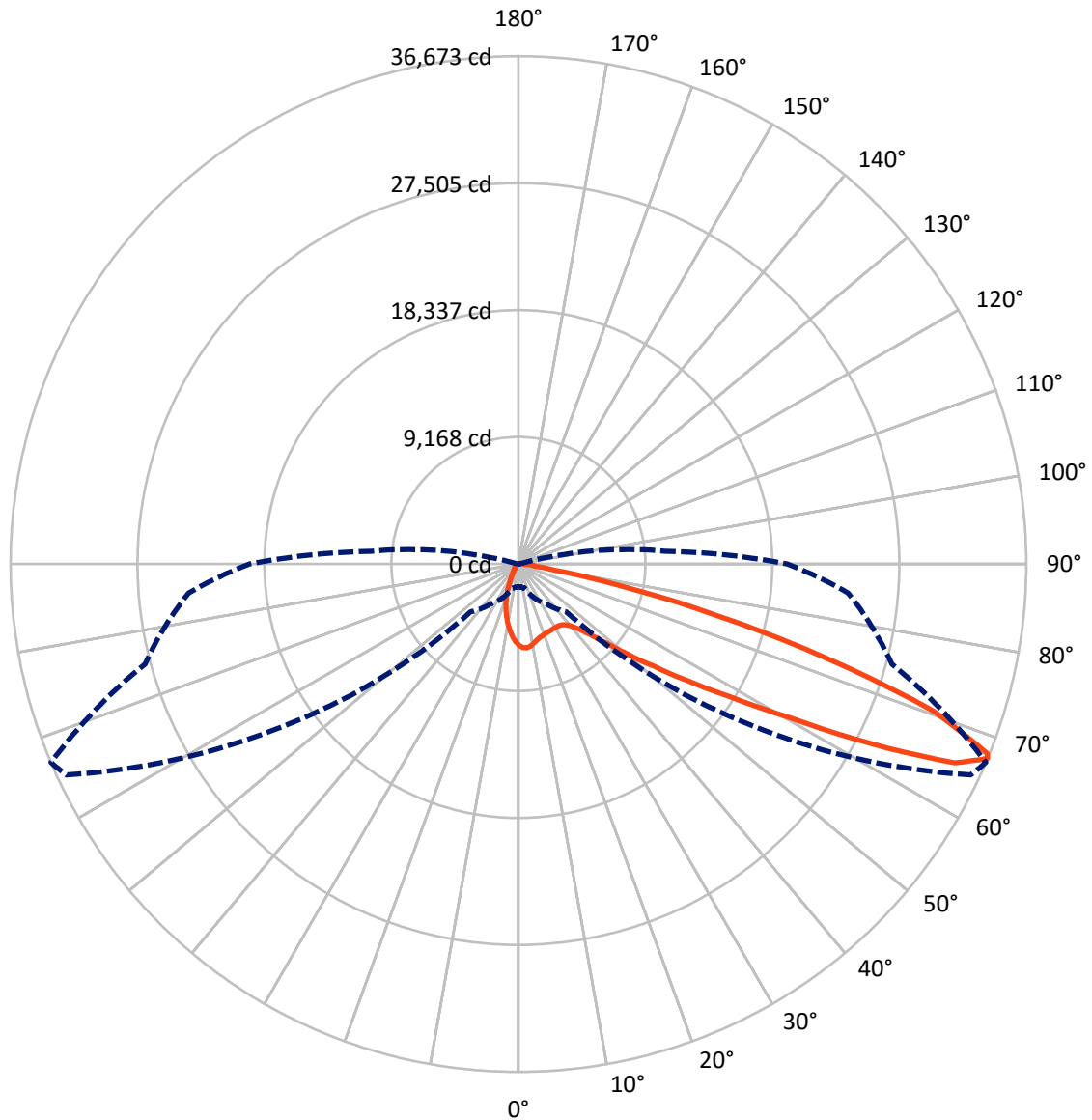
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2765.1	0.0	2765.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	23866.4	0.0	23866.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	26631.5	0.0	26631.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.9	1.8
10°-20°	1017.1	3.8
20°-30°	1478.8	5.6
30°-40°	2307.0	8.7
40°-50°	4086.8	15.3
50°-60°	6467.0	24.3
60°-70°	7407.0	27.8
70°-80°	3072.4	11.5
80°-90°	317.4	1.2
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°	26631.5	100.0
0°-180°	26631.5	100.0



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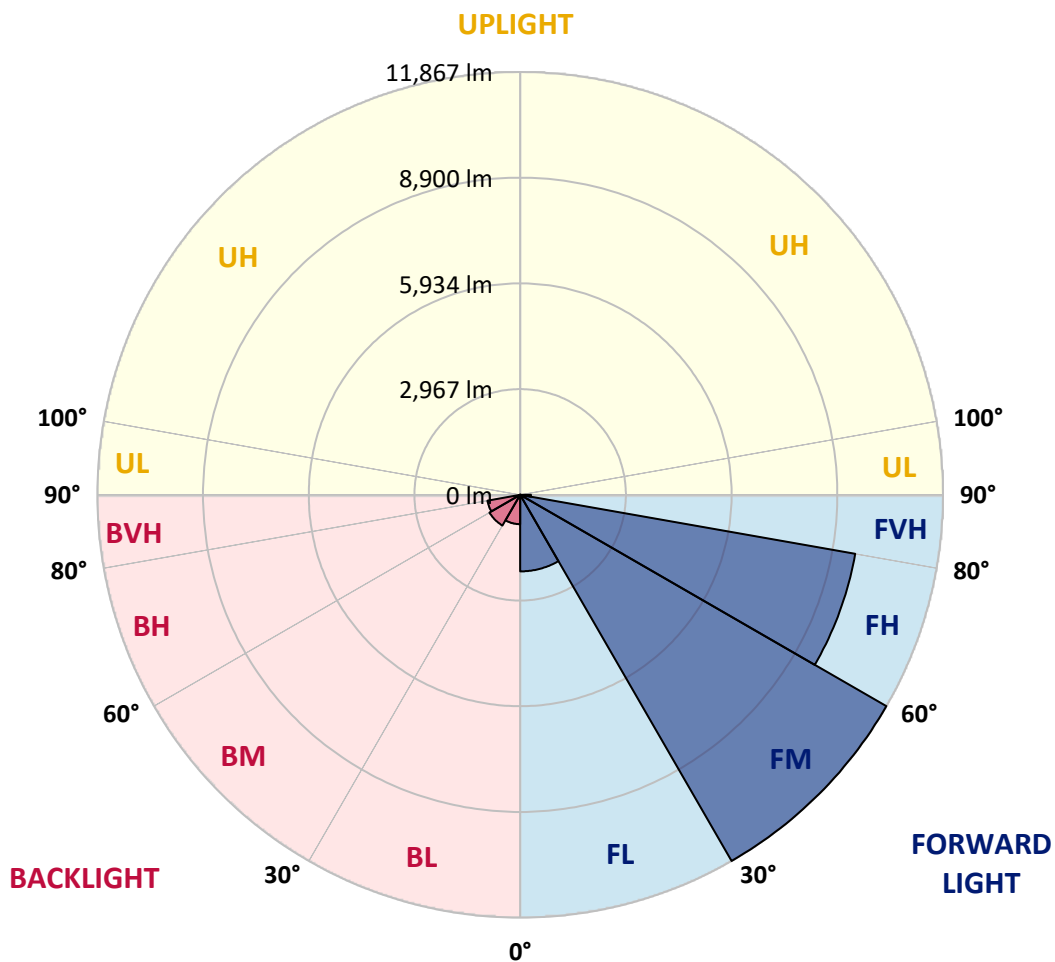
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2148.8	8.1			
FM (30°-60°)	11867.1	44.6			
FH (60°-80°)	9547.5	35.9			G4/12000
FVH (80°-90°)	303.1	1.1			G3/500
BL (0°-30°)	825.1	3.1	B2/1000		
BM (30°-60°)	993.8	3.7	B1/1000		
BH (60°-80°)	931.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	14.3	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5873.3	5873.3	5873.3	5873.3	5873.3	5873.3	5873.3	5873.3	5873.3	5873.3	5873.3
2.5°	6072.0	6084.5	6083.0	6092.3	6114.0	6115.5	6093.8	6051.9	6042.6	5988.1	5893.4
5°	5599.8	5635.5	5657.3	5745.8	5845.2	5964.9	6054.9	6087.6	6083.0	6044.1	5901.2
7.5°	5060.8	5096.5	5121.4	5225.4	5357.5	5562.6	5797.2	5989.7	6006.8	6048.7	5895.0
10°	4702.0	4708.2	4742.4	4841.8	4980.0	5189.7	5469.3	5806.5	5857.7	6011.5	5879.4
12.5°	4406.9	4411.5	4456.6	4563.8	4711.3	4922.5	5216.1	5606.1	5685.3	5964.9	5876.3
15°	4197.2	4214.3	4254.7	4366.5	4523.4	4733.1	5034.5	5458.5	5553.2	5947.7	5904.3
17.5°	4127.3	4145.9	4158.3	4239.1	4382.0	4587.0	4896.1	5362.2	5469.3	5957.2	5958.7
20°	4200.2	4214.3	4186.3	4206.5	4295.1	4478.3	4779.6	5279.9	5407.2	5968.0	6028.6
22.5°	4472.1	4478.3	4402.2	4313.7	4298.1	4399.1	4688.0	5214.6	5351.3	5997.5	6110.9
25°	4938.1	4927.2	4803.0	4611.9	4431.7	4385.1	4633.7	5174.2	5323.3	6028.6	6196.3
27.5°	5500.4	5516.0	5345.1	5067.1	4723.8	4478.3	4625.9	5157.1	5311.0	6050.3	6270.9
30°	6183.9	6205.6	6009.9	5660.4	5168.0	4708.2	4697.4	5154.0	5303.2	6036.3	6277.1
32.5°	6881.4	6907.8	6753.9	6393.6	5761.4	5093.5	4858.9	5188.2	5318.7	5988.1	6241.3
35°	7611.5	7648.7	7546.2	7237.1	6566.0	5649.6	5143.2	5292.2	5391.7	5983.5	6205.6
37.5°	8619.6	8653.8	8461.1	8133.4	7540.0	6395.2	5599.8	5488.0	5564.1	6058.1	6214.9
40°	10124.8	10120.1	9623.0	9121.2	8610.3	7342.7	6241.3	5842.2	5881.0	6283.3	6329.9
42.5°	11765.1	11757.3	11022.6	10259.9	9798.5	8509.3	7084.9	6454.2	6427.8	6698.1	6628.2
45°	13029.5	13028.0	12428.3	11569.4	11229.2	9848.3	8175.3	7305.4	7265.0	7372.2	7178.0
47.5°	13568.5	13577.8	13276.5	12672.2	12815.1	11659.5	9550.1	8538.8	8478.2	8434.7	8139.6
50°	13149.1	13167.7	13192.6	13074.5	13978.6	14093.6	11393.8	10277.0	10247.5	10053.3	9592.0
52.5°	11779.1	11873.8	12165.9	12540.3	14382.5	16429.8	14284.7	12436.1	12277.7	12071.1	11563.1
55°	9470.8	9574.9	10129.5	11038.2	13781.4	17964.6	18335.8	15219.8	14955.6	14339.0	13605.9
57.5°	6267.8	6429.3	7234.0	8389.6	12035.4	18211.5	22377.6	19082.9	18163.4	16474.8	15648.5
60°	3453.1	3608.5	4481.4	5528.4	8692.5	16990.6	25096.0	24112.7	22487.9	18862.4	18129.1
62.5°	2126.5	2210.4	2855.1	3829.0	5213.1	13410.1	25658.3	30433.3	28552.2	21936.5	21125.6
65°	1693.2	1728.9	2044.2	3130.0	3737.4	7976.5	23842.4	35251.8	34624.2	25658.3	23808.3
67°	1643.5	1657.4	1806.5	2687.3	3523.0	4889.9	19974.5	36036.2	36673.1	27910.7	23892.1
67.5°	1654.3	1669.9	1811.2	2564.5	3516.8	4493.8	18641.8	35727.2	36531.7	28089.3	23520.9
70°	1595.3	1643.5	2073.7	2563.0	3344.3	3734.3	11164.0	30955.2	31792.5	26099.5	19957.5
72.5°	565.4	568.6	896.3	2073.7	3636.4	3774.7	5606.1	22692.9	23312.7	19965.2	14388.7
75°	335.5	285.8	298.3	590.2	3474.9	3665.9	3234.1	14500.5	14732.0	11440.5	7286.8
77.5°	231.5	201.9	208.2	261.0	1323.5	3614.7	2569.2	7561.8	7314.7	4012.3	1551.8
80°	132.1	116.5	124.3	228.3	481.5	3372.4	2423.3	3066.3	2614.3	680.4	428.7
82.5°	69.9	59.0	71.5	187.9	335.5	2101.7	2427.9	1481.9	1174.3	229.9	292.1
85°	24.9	20.2	34.2	128.9	223.7	644.7	2250.8	1245.7	978.7	111.8	222.1
87.5°	4.7	4.7	14.0	52.8	90.1	197.2	1331.3	739.4	495.5	66.8	152.2
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°	5873.3	5873.3	5873.3	5873.3	5873.3	5873.3	5873.3	5873.3	5873.3	5873.3	5873.3
2.5°	5854.6	5787.8	5697.7	5587.5	5456.9	5342.0	5256.5	5168.0	5149.3	5118.3	5113.6
5°	5815.8	5700.8	5477.1	5220.8	4947.4	4700.5	4500.1	4321.5	4242.2	4173.8	4166.1
7.5°	5758.3	5585.8	5205.3	4792.1	4364.9	3976.6	3647.2	3414.3	3199.9	3097.4	3081.8
10°	5691.5	5444.6	4899.3	4326.1	3735.8	3187.5	2698.1	2288.1	2039.6	1891.9	1873.3
12.5°	5629.4	5306.3	4587.0	3843.0	3058.5	2325.4	1696.3	1304.8	1043.8	938.3	925.8
15°	5599.8	5194.4	4295.1	3349.0	2350.2	1480.3	927.3	717.6	632.2	607.3	605.8
17.5°	5596.8	5099.6	4009.3	2838.0	1646.5	860.6	604.3	551.5	534.4	528.1	528.1
20°	5595.1	5009.6	3723.4	2308.3	1045.5	573.2	503.3	490.8	478.4	470.7	470.7
22.5°	5612.2	4928.8	3425.1	1767.8	658.6	464.4	442.7	430.3	414.7	403.9	402.3
25°	5629.4	4866.7	3120.7	1258.2	476.9	403.9	382.2	365.0	343.3	329.3	327.8
27.5°	5632.5	4788.9	2794.5	841.9	399.3	352.6	324.7	298.3	273.4	259.4	257.9
30°	5585.8	4658.5	2432.6	568.6	352.6	306.0	268.7	240.8	217.5	206.6	206.6
32.5°	5494.2	4497.0	2034.9	428.7	313.7	262.5	222.1	195.7	180.1	175.5	174.0
35°	5411.9	4323.0	1626.4	363.5	281.1	222.1	181.8	164.7	155.4	153.7	152.2
37.5°	5363.7	4183.2	1242.7	329.3	250.1	186.4	153.7	141.4	136.7	133.6	135.1
40°	5401.0	4066.6	918.0	301.4	219.0	155.4	130.5	124.3	119.6	118.0	118.0
42.5°	5564.1	4046.5	681.9	276.5	189.6	128.9	113.4	108.7	105.7	104.0	105.7
45°	5992.9	4170.8	529.7	253.2	160.0	108.7	96.3	94.7	93.2	93.2	93.2
47.5°	6637.5	4427.0	441.2	226.8	133.6	93.2	83.9	82.3	80.8	82.3	82.3
50°	7729.5	4896.1	394.6	200.4	110.3	79.2	71.5	71.5	71.5	71.5	73.0
52.5°	9390.0	5818.9	363.5	174.0	90.1	66.8	60.6	60.6	62.1	62.1	63.7
55°	11240.1	7042.9	335.5	147.6	76.1	56.0	49.7	51.2	52.8	54.3	54.3
57.5°	13247.0	8398.9	312.2	121.1	65.3	45.0	41.9	43.5	45.0	48.2	48.2
60°	15668.6	9866.9	278.0	94.7	54.3	35.7	32.6	35.7	40.4	43.5	45.0
62.5°	18328.0	11286.6	234.6	74.6	45.0	27.9	26.4	32.6	38.9	41.9	43.5
65°	20145.5	11732.5	180.1	60.6	34.2	20.2	21.8	29.6	37.2	41.9	41.9
67°	19409.2	10637.4	147.6	51.2	27.9	15.5	20.2	29.6	37.2	40.4	41.9
67.5°	18898.1	10208.6	141.4	49.7	26.4	15.5	20.2	29.6	37.2	41.9	41.9
70°	15376.7	7668.9	118.0	37.2	21.8	14.0	17.1	27.9	35.7	40.4	40.4
72.5°	10684.0	4728.4	105.7	26.4	18.6	12.4	15.5	26.4	34.2	38.9	40.4
75°	5079.5	1711.8	90.1	20.2	17.1	10.8	14.0	26.4	34.2	38.9	38.9
77.5°	1036.0	397.6	73.0	17.1	14.0	10.8	12.4	24.9	32.6	37.2	37.2
80°	340.2	153.7	54.3	15.5	14.0	10.8	12.4	23.3	32.6	35.7	37.2
82.5°	245.4	77.6	35.7	15.5	14.0	10.8	10.8	23.3	31.1	35.7	35.7
85°	187.9	54.3	23.3	15.5	14.0	10.8	10.8	21.8	29.6	34.2	34.2
87.5°	124.3	21.8	18.6	15.5	14.0	10.8	10.8	21.8	27.9	32.6	34.2
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)