

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: P269546

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269546
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-08-LED-E1-SL2-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 26751.2 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - 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

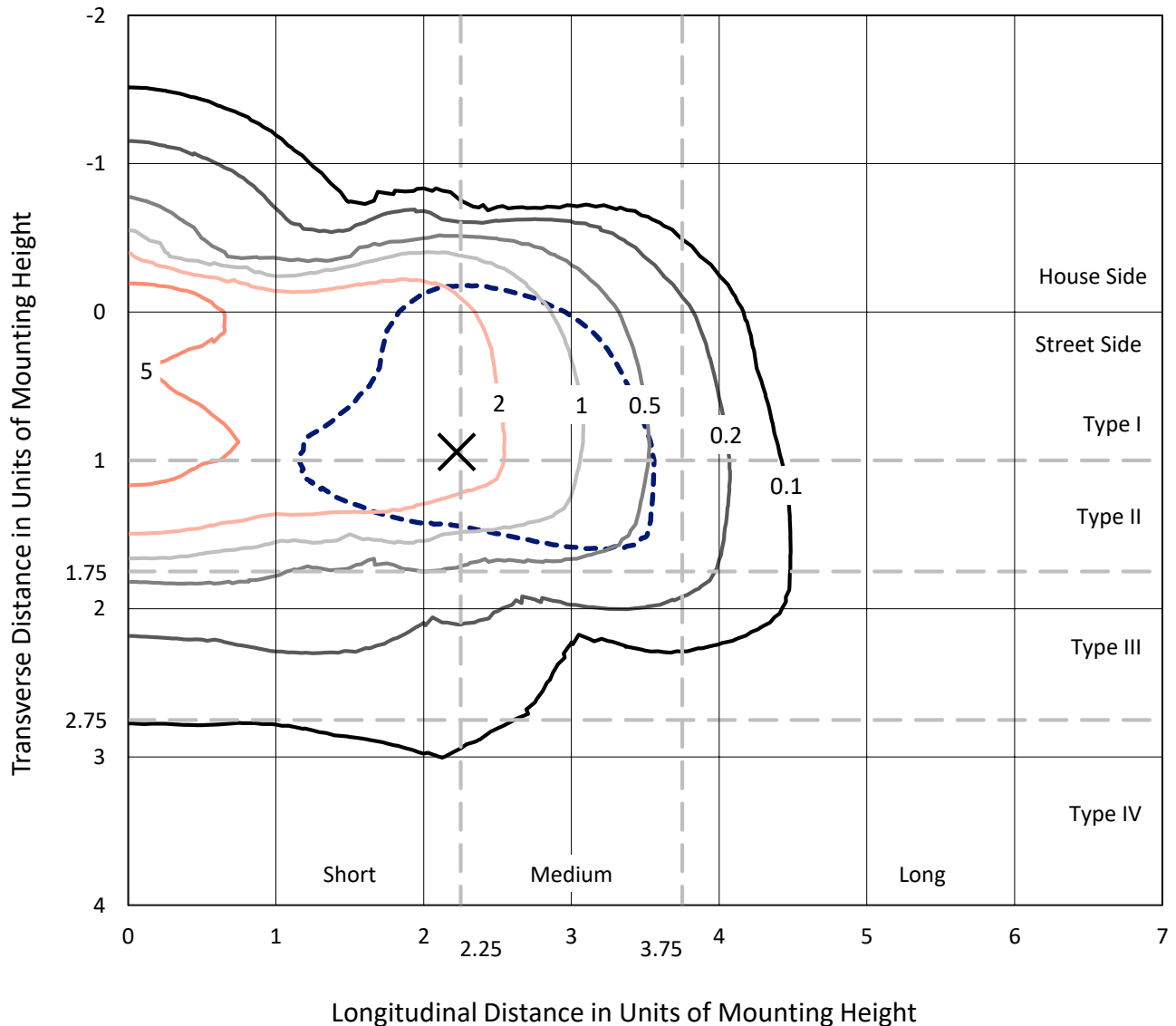


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Iso-Footcandle Lines of Horizontal Illumination

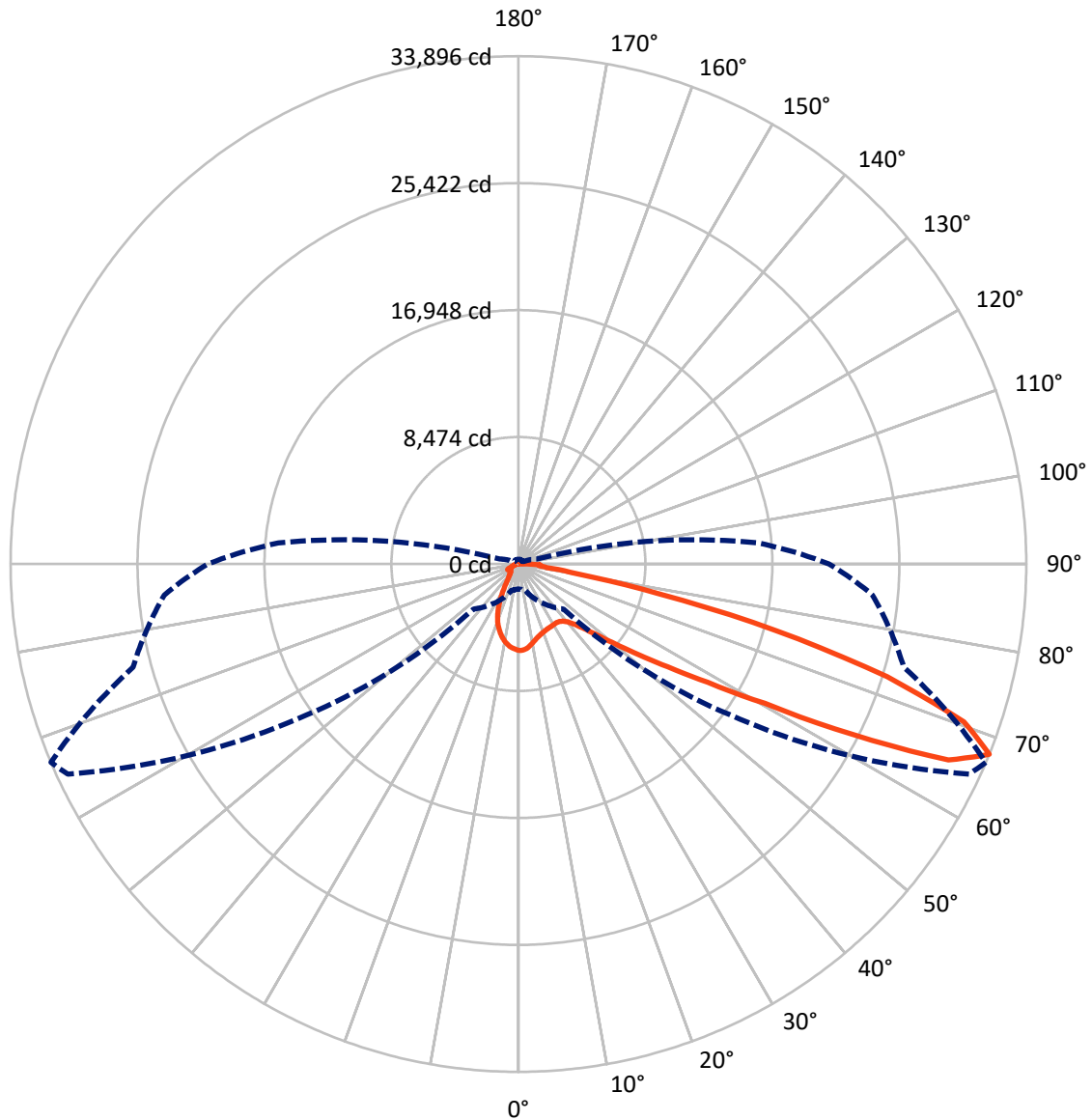
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	4432.4	0.0	4432.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	22318.9	0.0	22318.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	26751.2	0.0	26751.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.3	1.8
10°-20°	1139.1	4.3
20°-30°	1544.0	5.8
30°-40°	2195.0	8.2
40°-50°	3672.3	13.7
50°-60°	5809.6	21.7
60°-70°	7400.8	27.7
70°-80°	3876.5	14.5
80°-90°	621.7	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°	26751.2	100.0
0°-180°	26751.2	100.0

Coefficient of Utilization



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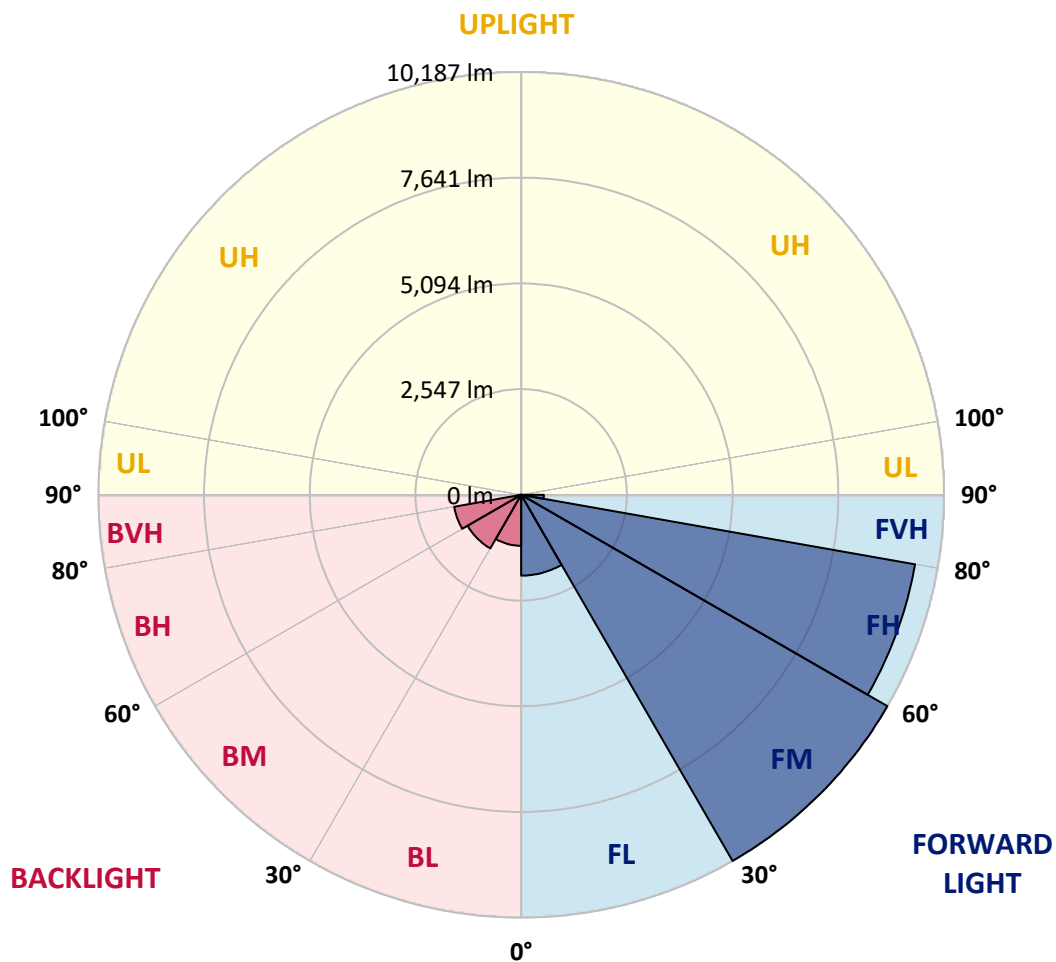
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1946.8	7.3			
FM	(30°-60°)	10187.4	38.1			
FH	(60°-80°)	9637.9	36.0			G4/12000
FVH	(80°-90°)	546.7	2.0			G4/750
BL	(0°-30°)	1228.5	4.6	B3/2500		
BM	(30°-60°)	1489.4	5.6	B2/2500		
BH	(60°-80°)	1639.4	6.1	B3/2500		G3/2500
BVH	(80°-90°)	75.0	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°	5770.3	5770.3	5770.3	5770.3	5770.3	5770.3	5770.3	5770.3	5770.3	5770.3	5770.3
2.5°	5532.8	5542.0	5571.0	5589.4	5672.5	5708.2	5733.3	5758.3	5762.3	5774.1	5762.3
5°	4952.3	4972.1	5026.1	5086.8	5247.8	5374.4	5507.7	5646.1	5671.2	5760.9	5786.1
7.5°	4502.5	4497.2	4542.0	4614.6	4779.4	4955.0	5188.4	5464.1	5518.2	5720.0	5817.7
10°	4174.0	4170.0	4217.5	4292.7	4449.7	4615.9	4879.8	5257.1	5333.5	5655.4	5848.1
12.5°	3931.3	3932.5	3980.0	4063.2	4222.8	4390.2	4658.2	5056.5	5154.1	5580.2	5879.6
15°	3770.2	3780.8	3819.1	3907.4	4063.2	4230.7	4493.2	4906.2	5015.5	5520.9	5915.2
17.5°	3716.2	3733.4	3746.6	3811.1	3944.4	4111.9	4369.1	4795.3	4911.4	5480.0	5947.0
20°	3766.4	3786.0	3761.1	3783.5	3867.9	4015.7	4271.6	4708.2	4827.0	5433.8	5950.9
22.5°	3981.4	3999.9	3926.0	3861.4	3856.1	3945.7	4191.1	4639.7	4762.4	5399.5	5952.2
25°	4360.0	4371.8	4247.8	4097.3	3951.0	3920.7	4134.4	4592.1	4722.7	5369.1	5927.1
27.5°	4824.3	4833.5	4691.0	4469.4	4175.2	3980.0	4114.5	4564.5	4700.3	5342.8	5884.9
30°	5388.9	5432.5	5241.3	4961.5	4532.8	4155.5	4154.1	4549.9	4675.3	5297.9	5801.9
32.5°	5966.7	5985.1	5853.3	5569.8	5014.2	4464.1	4265.0	4560.4	4668.6	5243.9	5696.3
35°	6552.4	6576.2	6490.4	6262.3	5672.5	4916.7	4481.4	4622.5	4709.5	5225.4	5622.4
37.5°	7311.0	7342.7	7223.9	6960.1	6473.4	5530.1	4841.4	4778.2	4834.9	5278.1	5600.0
40°	8510.2	8495.6	8148.6	7755.5	7349.3	6315.1	5356.0	5041.9	5075.0	5448.3	5668.7
42.5°	9905.9	9870.2	9272.7	8655.3	8312.2	7264.9	6036.7	5499.8	5493.1	5783.4	5909.9
45°	11019.2	10990.3	10452.0	9690.8	9416.5	8346.6	6916.6	6181.7	6133.0	6315.1	6355.9
47.5°	11622.1	11623.4	11313.4	10692.2	10685.5	9721.2	8047.1	7168.6	7084.2	7169.8	7126.3
50°	11411.1	11438.7	11405.8	11208.0	11843.8	11523.2	9523.3	8544.5	8374.3	8458.7	8291.1
52.5°	10390.1	10425.5	10620.9	10924.3	12330.6	13701.2	11692.1	10254.2	10056.3	10026.0	9839.9
55°	8580.2	8623.5	9021.9	9846.5	11925.5	15164.2	15114.1	12433.5	12118.1	11831.8	11752.7
57.5°	5914.0	5986.6	6627.6	7851.8	10615.6	15606.2	19189.1	15540.1	14899.1	13899.0	13917.6
60°	3333.6	3418.1	4174.0	5286.0	7971.9	15125.9	22289.3	20245.8	18892.3	16319.8	16456.9
62.5°	2120.0	2211.0	2784.8	3672.6	4783.5	12540.2	23559.6	26787.6	25068.8	19303.9	19438.5
65°	1716.3	1755.8	2026.2	3031.5	3473.4	7555.0	22595.2	32176.6	31535.4	23091.3	22463.3
67.5°	1675.3	1688.5	1828.4	2544.8	3330.9	4246.5	18023.0	33184.5	33895.6	26628.1	23723.2
70°	1655.5	1701.7	2060.6	2428.7	3189.8	3581.6	10830.7	30422.1	31544.7	27552.9	22046.5
72.5°	803.4	800.7	1037.0	2196.4	3593.5	3714.9	5564.5	24614.9	25741.6	23870.9	18116.6
75°	647.7	592.3	565.9	804.7	3455.1	3836.2	3546.0	16937.3	17752.5	16004.6	11136.6
77.5°	614.7	548.8	502.6	503.9	1460.4	4068.5	3003.8	9374.3	9611.7	7229.2	3051.4
80°	509.2	448.6	415.6	468.3	707.1	3874.5	3247.9	4242.5	3893.0	1775.6	1015.8
82.5°	353.6	322.0	312.6	393.1	565.9	2761.1	3776.8	2279.5	1911.6	889.1	626.6
85°	225.6	192.5	213.6	286.3	440.6	1274.3	3890.3	1776.9	1412.9	564.7	353.6
87.5°	104.3	84.4	105.6	158.3	287.5	439.4	3701.6	1995.9	1455.1	298.1	223.0
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°	5770.3	5770.3	5770.3	5770.3	5770.3	5770.3	5770.3	5770.3	5770.3	5770.3	5770.3
2.5°	5772.8	5747.7	5728.0	5691.0	5650.1	5610.5	5574.9	5530.1	5516.9	5505.1	5523.5
5°	5791.4	5766.2	5693.6	5580.2	5454.9	5337.5	5220.1	5119.8	5057.7	5023.5	5043.4
7.5°	5819.0	5783.4	5633.0	5424.5	5199.0	4993.1	4780.8	4610.6	4485.2	4425.9	4443.0
10°	5844.1	5775.5	5530.1	5217.4	4887.7	4581.5	4246.5	3969.5	3763.7	3655.6	3682.0
12.5°	5854.7	5745.1	5386.2	4958.9	4506.3	4057.9	3564.5	3150.3	2854.8	2746.6	2724.1
15°	5865.2	5710.9	5228.0	4664.7	4046.0	3411.5	2720.2	2224.2	1978.7	1924.7	1912.9
17.5°	5867.8	5651.4	5048.6	4345.5	3506.4	2642.4	1860.1	1544.7	1546.2	1633.2	1643.7
20°	5840.2	5563.1	4830.9	3948.4	2860.1	1827.2	1277.0	1223.0	1422.0	1639.8	1666.1
22.5°	5776.8	5445.6	4584.2	3485.3	2120.0	1203.1	988.0	1047.5	1304.7	1571.1	1601.5
25°	5696.3	5303.1	4292.7	2948.3	1403.6	860.0	828.4	901.0	1075.1	1253.2	1270.5
27.5°	5586.7	5134.4	3965.5	2333.6	911.6	708.5	729.6	778.3	849.5	928.7	936.7
30°	5445.6	4932.6	3615.9	1701.7	688.6	637.2	667.5	693.9	724.3	769.0	773.0
32.5°	5283.4	4738.6	3257.2	1175.4	610.8	600.2	624.1	637.2	661.0	688.6	691.2
35°	5147.5	4553.9	2885.0	831.1	577.8	572.5	588.4	593.6	616.1	646.4	649.0
37.5°	5069.7	4403.5	2501.2	670.1	555.4	547.4	556.7	556.7	588.4	633.2	639.9
40°	5075.0	4320.4	2117.3	605.5	536.8	526.3	527.7	527.7	568.5	617.3	621.4
42.5°	5218.8	4341.5	1776.9	580.5	522.5	510.5	503.9	507.9	542.1	573.8	576.5
45°	5556.5	4490.5	1457.7	564.7	507.9	503.9	489.4	488.0	501.3	515.7	515.7
47.5°	6110.5	4784.7	1241.4	554.1	496.0	494.6	477.5	460.4	459.0	464.3	464.3
50°	7011.5	5291.2	1096.2	542.1	488.0	477.5	457.7	431.4	422.2	426.1	426.1
52.5°	8362.4	6194.9	1040.9	526.3	470.9	453.9	431.4	405.0	397.1	398.4	398.4
55°	10134.0	7582.8	1033.0	507.9	452.4	424.8	406.4	386.5	377.3	380.0	380.0
57.5°	12299.0	9502.2	1174.1	478.8	427.5	395.8	385.3	372.0	365.4	369.4	368.0
60°	14930.6	12013.9	1741.4	448.6	402.4	369.4	369.4	358.9	353.6	357.4	356.2
62.5°	17962.1	14899.1	2448.4	426.1	376.0	348.3	353.6	348.3	343.1	345.7	344.3
65°	20650.7	16778.9	2292.7	409.0	349.6	328.5	337.8	335.1	331.1	333.8	332.5
67.5°	20728.6	16082.4	1287.5	390.6	324.5	308.7	322.0	320.5	317.9	320.5	319.3
70°	18499.2	13579.9	725.6	356.2	298.1	284.9	303.4	302.1	299.4	304.7	303.4
72.5°	14821.2	9854.4	530.3	314.0	271.7	259.9	281.0	279.6	279.6	287.5	283.7
75°	8528.6	5071.0	423.6	269.1	244.1	234.7	253.3	254.6	257.3	267.9	259.9
77.5°	2431.4	1580.4	345.7	228.2	209.8	205.8	224.2	226.9	228.2	240.0	229.5
80°	903.7	728.2	284.9	191.2	171.4	172.8	189.9	193.9	195.2	207.1	193.9
82.5°	576.5	480.1	230.9	147.7	134.6	133.3	154.4	159.5	159.5	160.9	153.0
85°	336.3	287.5	174.1	106.9	95.0	91.0	114.8	124.0	120.1	117.4	112.1
87.5°	225.6	197.8	106.9	59.4	51.5	48.8	67.3	73.9	71.2	67.3	63.3
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)