

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: P530183

Luminaire Tested: **GALN-SA5B-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12251 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

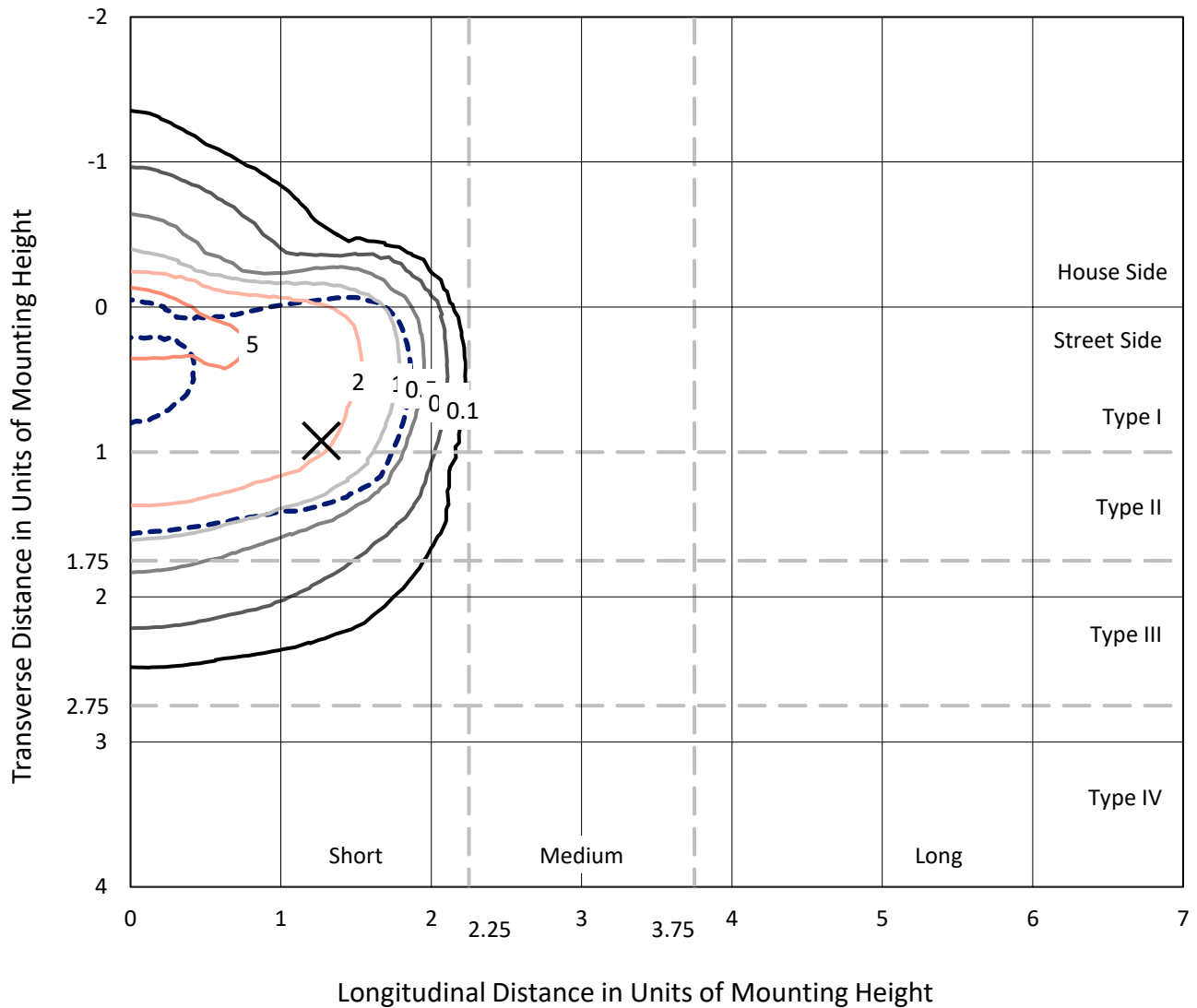
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

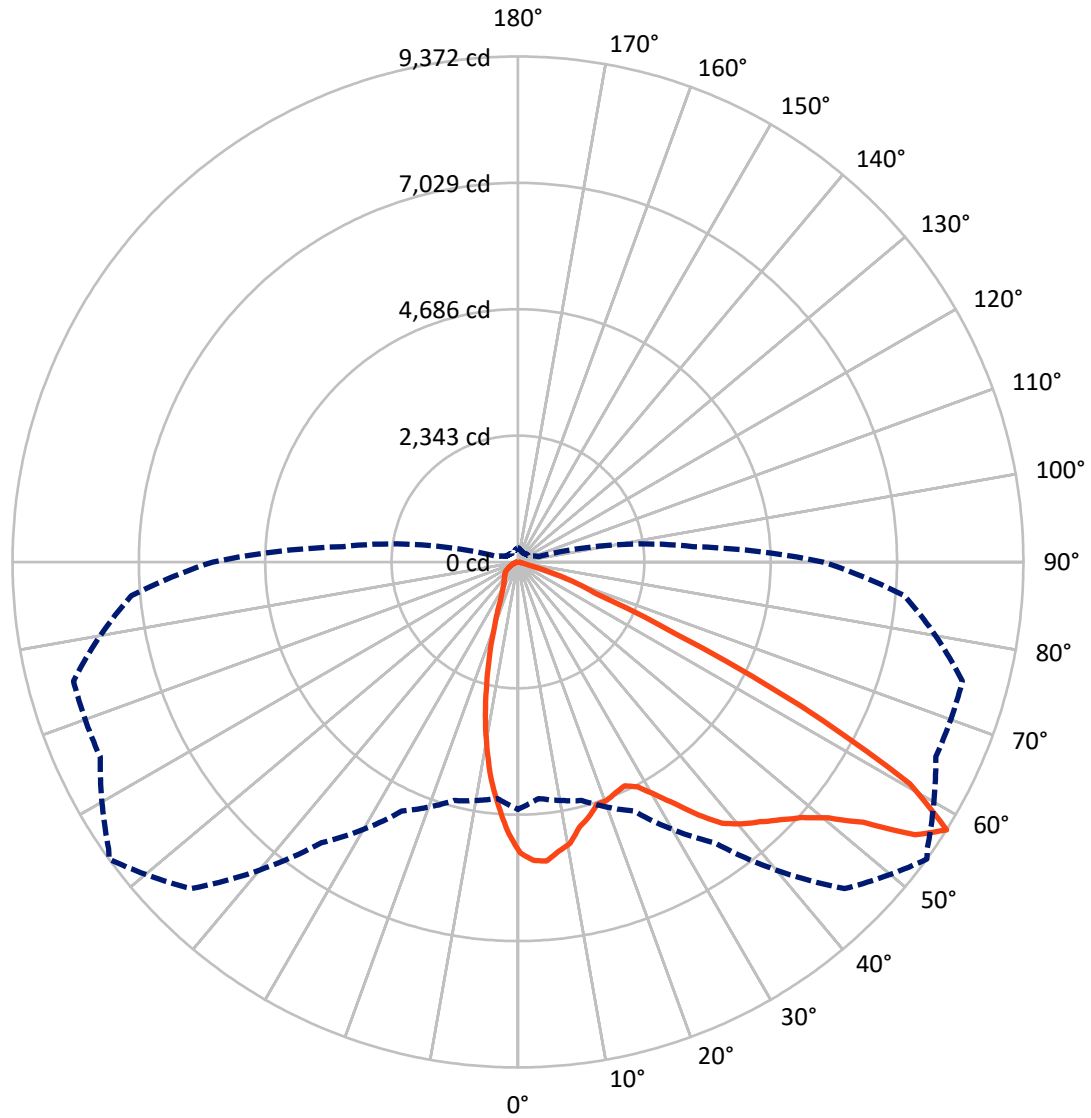
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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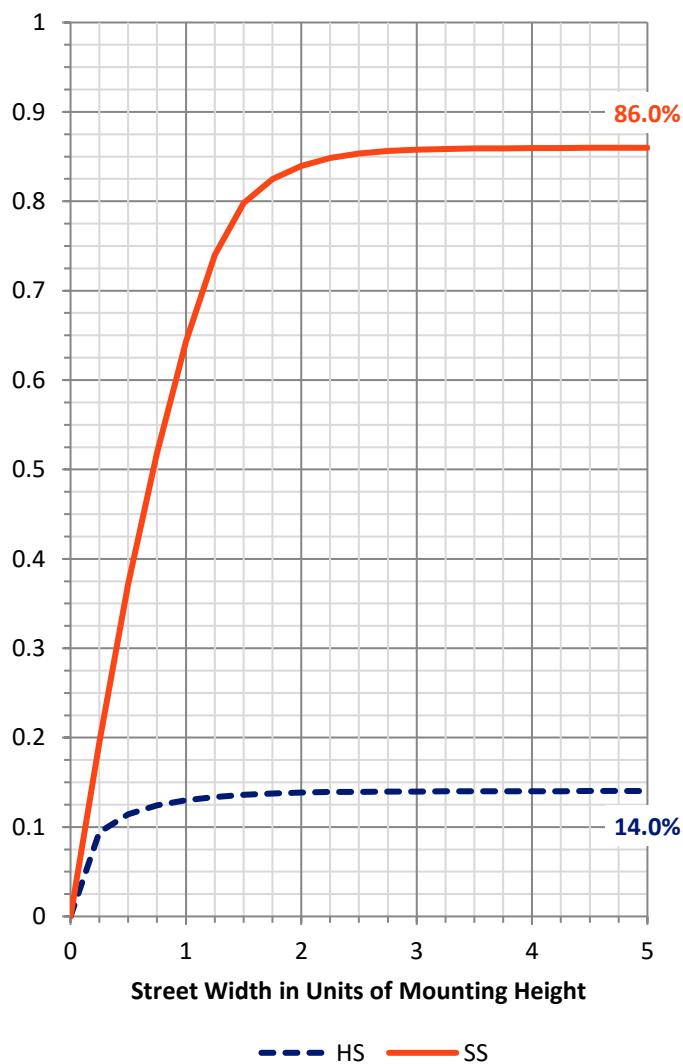
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1731.3	0.0	1731.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	10519.7	0.0	10519.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	12251.0	0.0	12251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.6	3.7
10°-20°	964.2	7.9
20°-30°	1277.7	10.4
30°-40°	1856.9	15.2
40°-50°	2753.5	22.5
50°-60°	3443.2	28.1
60°-70°	1358.2	11.1
70°-80°	135.2	1.1
80°-90°	10.5	0.1
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°	12251.0	100.0
0°-180°	12251.0	100.0

Coefficient of Utilization

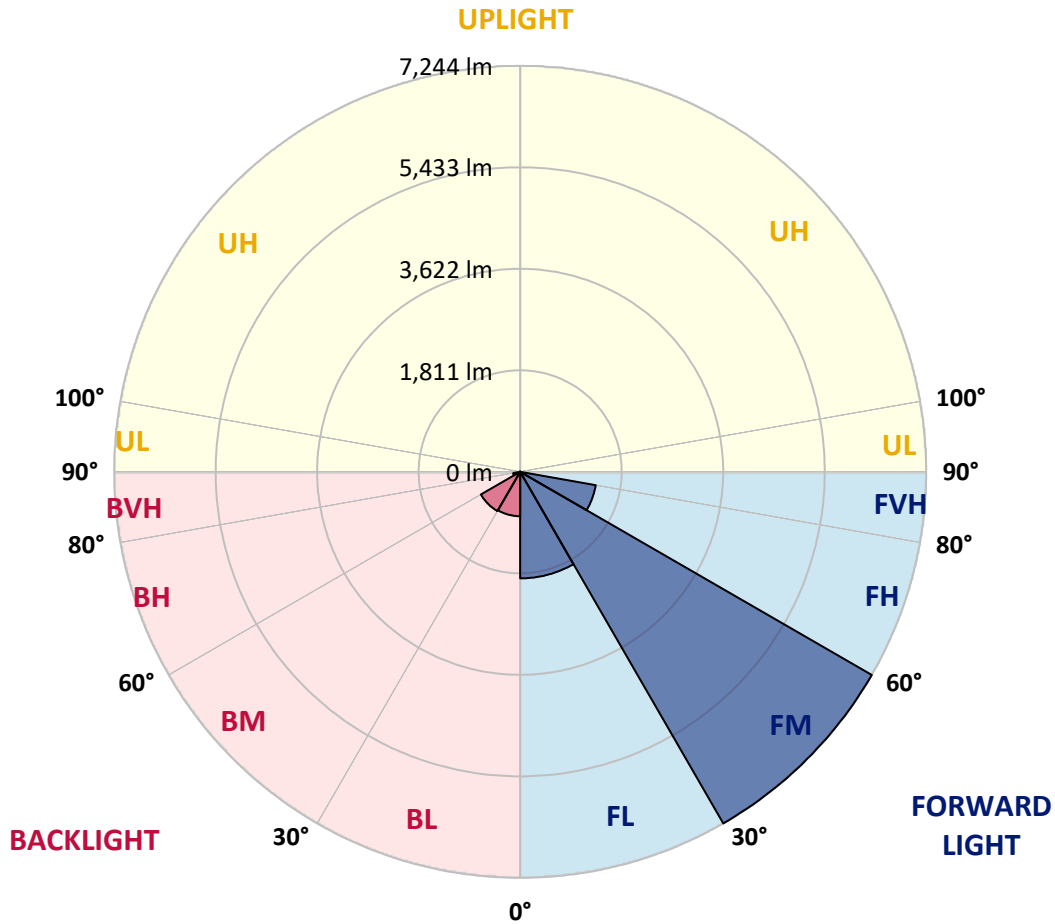


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1901.7	15.5			
FM (30°-60°)	7244.0	59.1			
FH (60°-80°)	1369.3	11.2			G1/1800
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	791.8	6.5	B2/1000		
BM (30°-60°)	809.6	6.6	B1/1000		
BH (60°-80°)	124.1	1.0	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5396.7	5396.7	5396.7	5396.7	5396.7	5396.7	5396.7	5396.7	5396.7	5396.7	5396.7
2.5°	5711.1	5651.9	5656.4	5635.9	5608.6	5629.1	5540.2	5560.8	5558.5	5437.7	5358.0
5°	5567.6	5631.4	5565.3	5620.0	5567.6	5624.5	5569.9	5528.9	5462.8	5373.9	5225.9
7.5°	5323.8	5262.3	5280.5	5348.9	5360.3	5487.9	5419.5	5471.9	5444.6	5269.2	5066.4
10°	4834.0	4820.4	4911.5	5002.6	5114.3	5250.9	5303.3	5273.7	5253.2	5187.1	4916.1
12.5°	4458.2	4496.9	4494.6	4645.0	4834.0	4911.5	5048.2	5043.6	5157.5	5034.5	4774.8
15°	4100.5	4121.0	4216.7	4310.1	4519.7	4740.6	4909.2	4932.0	5068.7	4982.1	4665.5
17.5°	3881.8	3852.2	3927.4	4039.0	4253.1	4542.5	4729.3	4783.9	4970.7	4952.5	4540.2
20°	3665.4	3665.4	3726.9	3859.0	4055.0	4380.7	4713.3	4697.4	4970.7	4918.3	4405.8
22.5°	3592.5	3629.0	3644.9	3745.1	3977.5	4257.7	4645.0	4674.6	5009.5	4902.4	4346.5
25°	3692.7	3644.9	3649.5	3729.2	3947.9	4198.5	4594.9	4660.9	5080.1	4982.1	4298.7
27.5°	3708.7	3756.5	3770.2	3824.9	3970.7	4216.7	4720.1	4854.6	5255.5	5168.9	4312.4
30°	3847.6	3895.5	3893.2	3986.6	4086.8	4364.8	5000.3	5027.7	5617.7	5403.6	4396.7
32.5°	4016.2	4066.3	4082.3	4191.6	4271.4	4635.9	5342.1	5412.7	5966.2	5772.6	4617.6
35°	4225.8	4207.6	4280.5	4389.8	4560.7	5032.2	5758.9	5877.4	6342.1	6251.0	4845.4
37.5°	4487.8	4465.0	4535.6	4713.3	4945.7	5501.5	6143.9	6221.4	6615.5	6695.2	5266.9
40°	4672.3	4681.4	4895.6	5134.8	5380.8	5948.0	6387.7	6462.9	6806.9	7109.8	5585.8
42.5°	4979.8	5036.8	5294.2	5585.8	5843.2	6282.9	6585.9	6658.8	6895.7	7442.4	6016.4
45°	5426.3	5401.3	5686.0	6011.8	6296.6	6631.4	6820.5	6795.5	6948.1	7772.7	6287.5
47.5°	6000.4	6005.0	6194.1	6472.0	6768.1	6934.4	7082.5	6993.7	7057.4	8121.3	6649.7
50°	6392.2	6426.4	6579.0	6863.8	7011.9	7267.0	7456.1	7401.4	7380.9	8330.9	6877.5
52.5°	6492.5	6595.0	6677.0	7032.4	7378.6	7781.9	8023.3	8139.5	7775.0	8401.5	7166.8
55°	5736.2	5827.3	6116.6	6604.1	7517.6	8597.4	8930.0	8932.3	8289.9	8715.9	7369.5
57.5°	4585.7	4401.2	4578.9	5096.0	6355.8	8563.2	9371.9	9264.9	8547.3	8531.3	7194.1
60°	3171.1	3125.5	3136.9	3341.9	4398.9	6811.4	8351.4	8490.3	7870.7	7394.6	5695.2
62.5°	2512.7	2474.0	2423.9	2401.1	2731.4	4244.0	5891.1	6087.0	5503.8	4795.3	3376.1
65°	1968.2	1945.5	1952.3	2043.4	2041.1	2407.9	3221.2	3141.4	2515.0	1858.9	1061.6
67.5°	1328.1	1362.3	1389.6	1665.3	1806.5	1676.7	1555.9	1510.4	817.8	344.0	234.6
70°	747.2	751.8	781.4	1041.1	1371.4	1300.8	1073.0	1073.0	407.8	125.3	134.4
72.5°	407.8	394.1	366.8	448.8	610.5	619.6	478.4	416.9	120.7	82.0	75.2
75°	198.2	195.9	168.6	139.0	132.1	109.3	84.3	77.5	54.7	52.4	45.6
77.5°	41.0	38.7	20.5	20.5	22.8	25.1	31.9	31.9	38.7	38.7	31.9
80°	0.0	0.0	2.3	9.1	15.9	22.8	27.3	27.3	31.9	31.9	25.1
82.5°	0.0	0.0	2.3	6.8	13.7	20.5	25.1	27.3	31.9	34.2	27.3
85°	0.0	0.0	0.0	4.6	11.4	15.9	13.7	13.7	11.4	9.1	4.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	5396.7	5396.7	5396.7	5396.7	5396.7	5396.7	5396.7	5396.7	5396.7	5396.7	5396.7
2.5°	5317.0	5312.4	5207.7	5148.4	5041.4	4948.0	4872.8	4818.1	4818.1	4783.9	4752.0
5°	5166.6	5127.9	4904.7	4761.2	4558.4	4408.1	4305.5	4225.8	4100.5	4134.7	4000.3
7.5°	4979.8	4881.9	4585.7	4367.0	4086.8	3872.7	3654.0	3460.4	3273.6	3189.3	3234.8
10°	4779.4	4608.5	4209.9	3863.6	3515.1	3123.2	2868.1	2558.3	2366.9	2355.5	2305.4
12.5°	4567.5	4373.9	3888.7	3410.3	2952.4	2480.8	2091.3	1801.9	1672.1	1528.6	1555.9
15°	4408.1	4121.0	3531.0	2954.6	2346.4	1870.3	1478.5	1255.2	1132.2	1098.0	1086.6
17.5°	4234.9	3927.4	3166.5	2469.4	1840.7	1346.3	1063.9	956.8	908.9	908.9	902.1
20°	4055.0	3708.7	2804.3	2018.4	1380.5	1004.6	852.0	817.8	815.5	813.3	813.3
22.5°	3936.5	3458.1	2476.3	1603.8	1041.1	804.2	740.4	726.7	735.8	763.2	763.2
25°	3811.2	3216.6	2114.0	1237.0	806.4	690.3	653.8	662.9	685.7	710.8	701.6
27.5°	3683.6	3059.4	1772.3	970.5	660.6	603.7	590.0	610.5	635.6	658.4	651.5
30°	3654.0	2890.9	1448.8	735.8	567.2	526.2	535.3	553.6	578.6	587.7	596.9
32.5°	3699.6	2758.7	1186.9	603.7	494.3	482.9	482.9	492.1	508.0	528.5	521.7
35°	3829.4	2683.6	938.6	524.0	453.3	441.9	439.7	448.8	457.9	464.7	457.9
37.5°	4027.6	2624.3	767.7	464.7	426.0	407.8	403.2	400.9	410.1	412.3	416.9
40°	4280.5	2656.2	651.5	428.3	398.7	378.2	364.5	364.5	364.5	371.3	373.6
42.5°	4553.8	2699.5	562.7	407.8	373.6	348.5	334.9	330.3	334.9	344.0	341.7
45°	4840.9	2783.8	505.7	375.9	350.8	318.9	300.7	296.1	307.5	325.8	323.5
47.5°	5109.7	2904.5	462.4	355.4	328.0	298.4	275.6	271.1	291.6	316.7	318.9
50°	5378.5	3114.1	446.5	339.4	312.1	277.9	257.4	252.9	275.6	307.5	314.4
52.5°	5688.3	3339.6	435.1	318.9	293.9	262.0	239.2	234.6	259.7	300.7	303.0
55°	5891.1	3531.0	426.0	282.5	259.7	236.9	218.7	216.4	243.8	280.2	289.3
57.5°	5654.2	3264.5	394.1	246.0	221.0	209.6	193.6	193.6	216.4	250.6	257.4
60°	4287.3	2148.2	280.2	198.2	186.8	180.0	173.1	173.1	191.4	216.4	218.7
62.5°	2510.4	1157.3	180.0	159.5	159.5	152.6	141.2	141.2	159.5	173.1	175.4
65°	744.9	371.3	145.8	136.7	134.4	123.0	111.6	109.3	123.0	129.8	127.6
67.5°	214.1	170.9	120.7	113.9	111.6	93.4	86.6	84.3	86.6	82.0	79.7
70°	127.6	116.2	93.4	95.7	84.3	68.3	61.5	59.2	54.7	47.8	43.3
72.5°	70.6	70.6	68.3	72.9	59.2	45.6	38.7	31.9	25.1	20.5	18.2
75°	43.3	45.6	47.8	50.1	38.7	29.6	25.1	15.9	9.1	4.6	4.6
77.5°	29.6	31.9	34.2	36.4	31.9	27.3	20.5	11.4	2.3	0.0	0.0
80°	22.8	25.1	29.6	31.9	34.2	36.4	27.3	11.4	2.3	0.0	0.0
82.5°	25.1	27.3	34.2	31.9	31.9	31.9	25.1	11.4	2.3	0.0	0.0
85°	4.6	6.8	11.4	11.4	15.9	20.5	15.9	4.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)