

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: P529845

Luminaire Tested: **GALN-SA5A-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529845
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-SA5A-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 12476 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

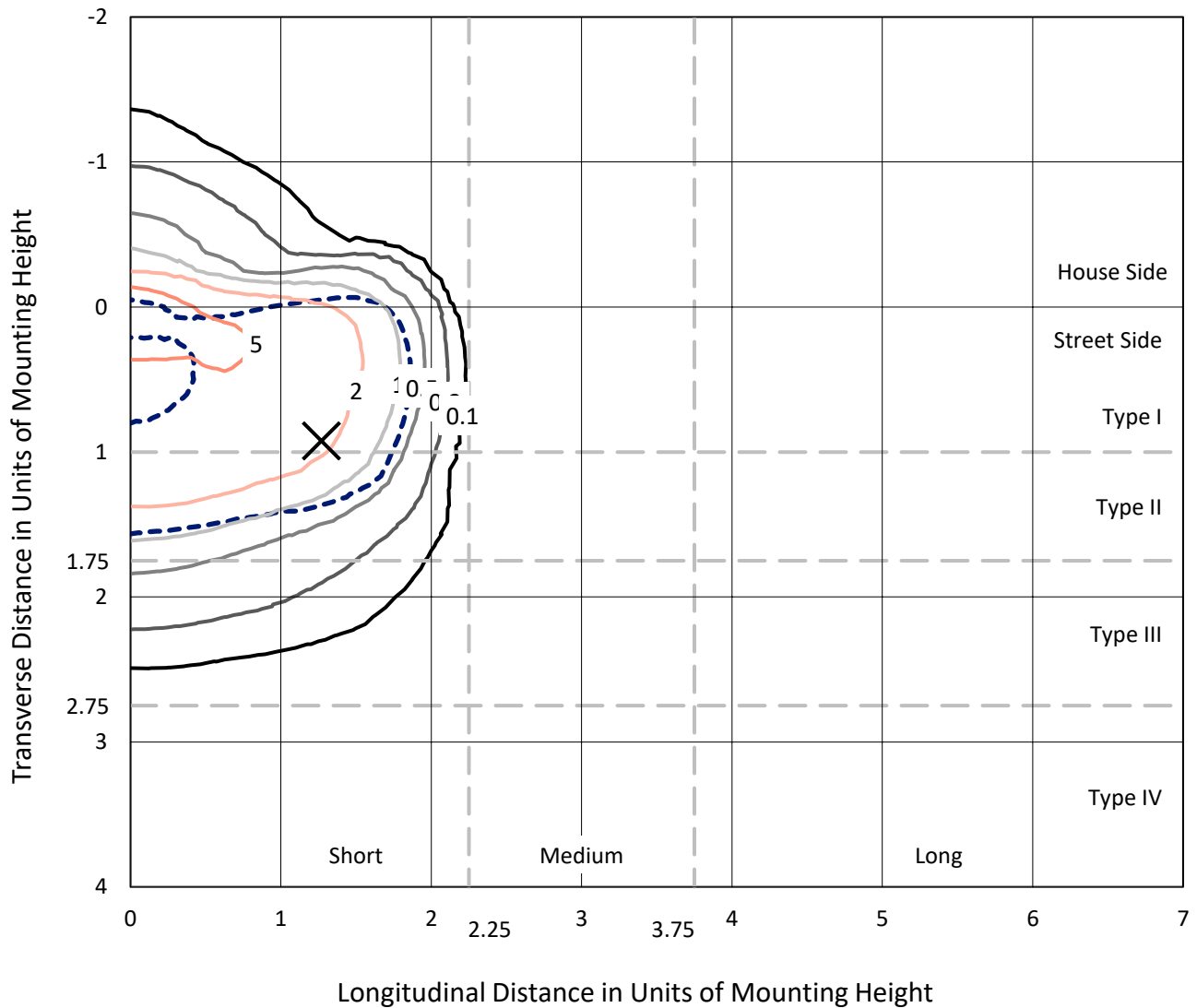
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

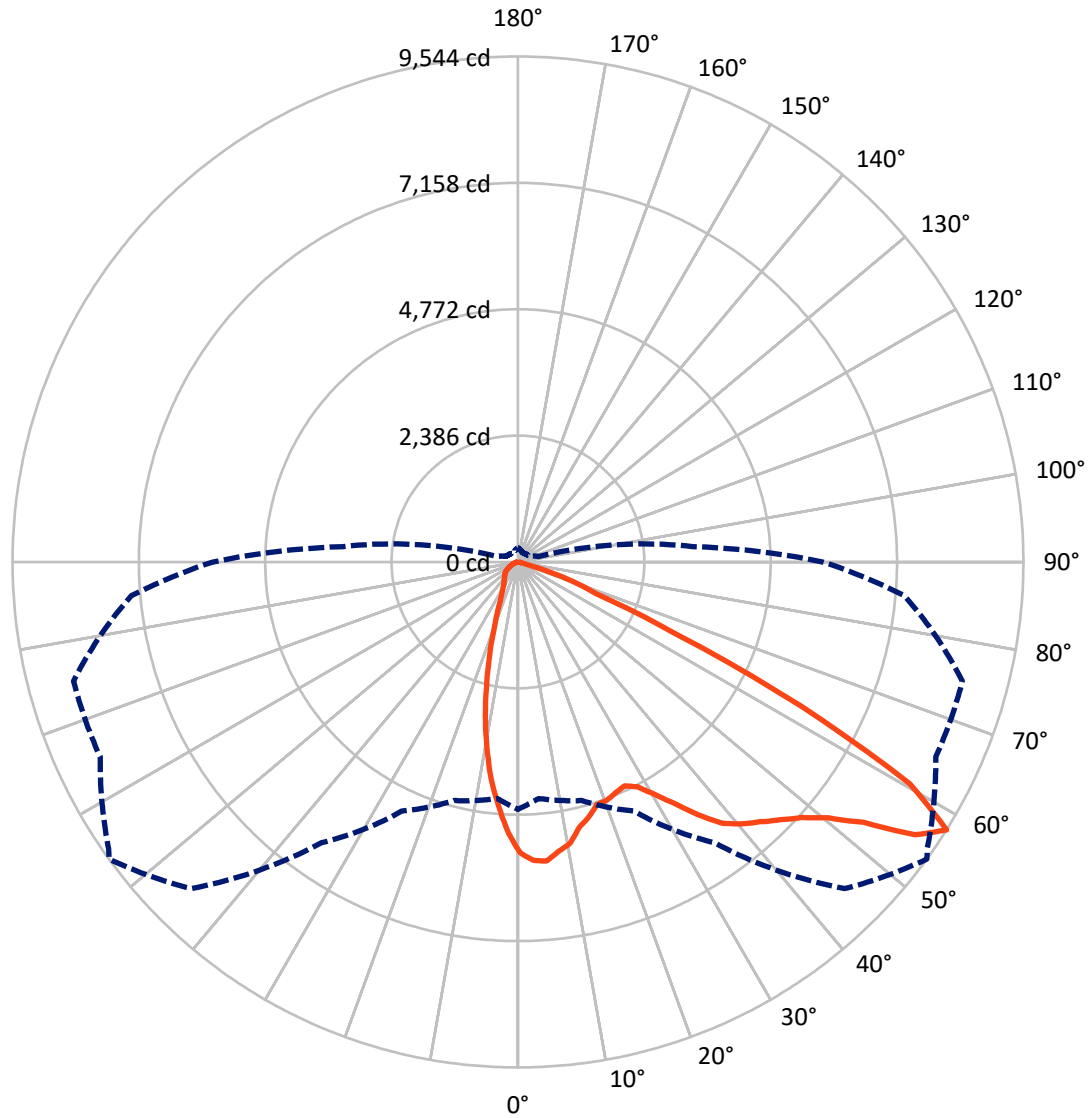
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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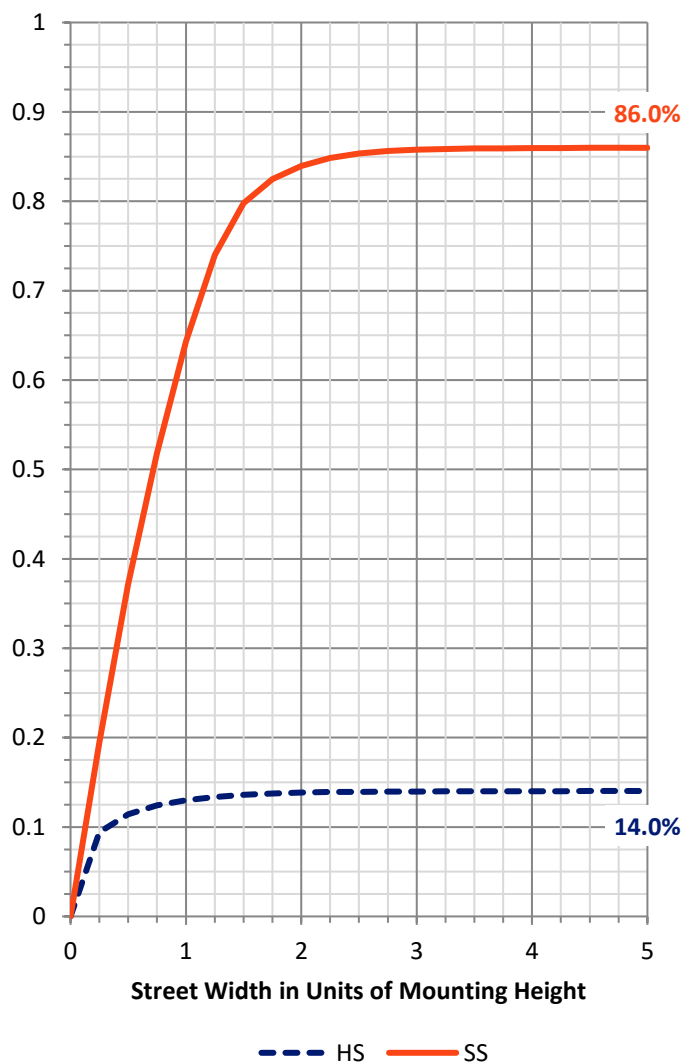
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1763.1	0.0	1763.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	10712.9	0.0	10712.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	12476.0	0.0	12476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.9	3.7
10°-20°	981.9	7.9
20°-30°	1301.2	10.4
30°-40°	1891.0	15.2
40°-50°	2804.1	22.5
50°-60°	3506.4	28.1
60°-70°	1383.1	11.1
70°-80°	137.7	1.1
80°-90°	10.7	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°	12476.0	100.0
0°-180°	12476.0	100.0

Coefficient of Utilization

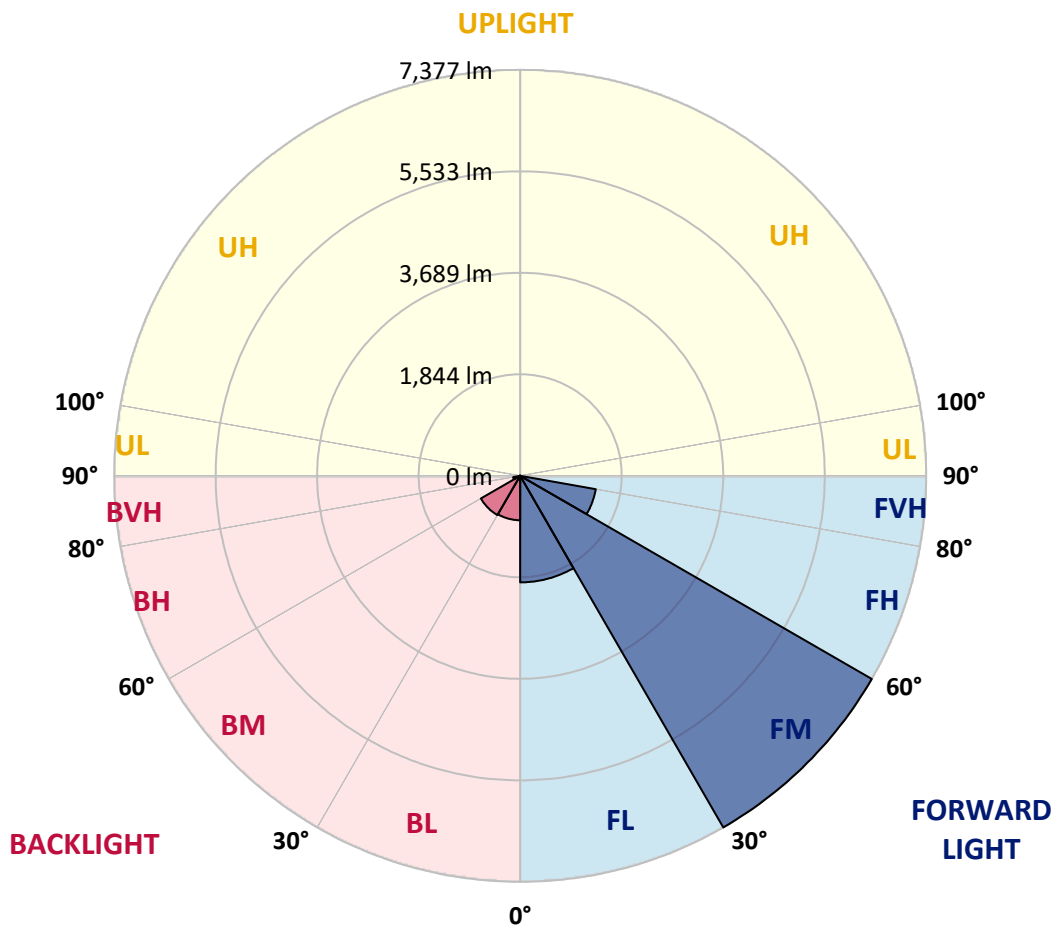


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.6	15.5			
FM (30°-60°)	7377.0	59.1			
FH (60°-80°)	1394.4	11.2			G1/1800
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	806.3	6.5	B2/1000		
BM (30°-60°)	824.5	6.6	B1/1000		
BH (60°-80°)	126.4	1.0	B1/500		G1/500
BVH (80°-90°)	5.8	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°	5495.8	5495.8	5495.8	5495.8	5495.8	5495.8	5495.8	5495.8	5495.8	5495.8	5495.8
2.5°	5816.0	5755.7	5760.3	5739.4	5711.6	5732.5	5642.0	5662.9	5660.6	5537.6	5456.4
5°	5669.8	5734.8	5667.5	5723.2	5669.8	5727.8	5672.2	5630.4	5563.1	5472.6	5321.9
7.5°	5421.6	5359.0	5377.5	5447.1	5458.7	5588.6	5519.0	5572.4	5544.6	5365.9	5159.5
10°	4922.8	4908.9	5001.7	5094.5	5208.2	5347.4	5400.7	5370.6	5349.7	5282.4	5006.3
12.5°	4540.0	4579.5	4577.2	4730.3	4922.8	5001.7	5140.9	5136.3	5252.3	5127.0	4862.5
15°	4175.8	4196.7	4294.1	4389.3	4602.7	4827.7	4999.4	5022.6	5161.8	5073.6	4751.2
17.5°	3953.1	3923.0	3999.5	4113.2	4331.3	4625.9	4816.1	4871.8	5062.0	5043.5	4623.6
20°	3732.7	3732.7	3795.4	3929.9	4129.4	4461.2	4799.9	4783.6	5062.0	5008.7	4486.7
22.5°	3658.5	3695.6	3711.8	3813.9	4050.5	4335.9	4730.3	4760.4	5101.5	4992.4	4426.4
25°	3760.6	3711.8	3716.5	3797.7	4020.4	4275.6	4679.2	4746.5	5173.4	5073.6	4377.7
27.5°	3776.8	3825.5	3839.4	3895.1	4043.6	4294.1	4806.8	4943.7	5352.0	5263.9	4391.6
30°	3918.3	3967.0	3964.7	4059.8	4161.9	4444.9	5092.2	5120.0	5720.9	5502.8	4477.4
32.5°	4090.0	4141.0	4157.3	4268.6	4349.8	4721.0	5440.2	5512.1	6075.8	5878.6	4702.4
35°	4303.4	4284.9	4359.1	4470.4	4644.4	5124.7	5864.7	5985.3	6458.6	6365.8	4934.4
37.5°	4570.2	4547.0	4618.9	4799.9	5036.5	5602.6	6256.8	6335.7	6737.0	6818.2	5363.6
40°	4758.1	4767.4	4985.5	5229.1	5479.6	6057.3	6505.0	6581.6	6931.9	7240.4	5688.4
42.5°	5071.3	5129.3	5391.5	5688.4	5950.5	6398.3	6706.8	6781.1	7022.3	7579.1	6126.9
45°	5526.0	5500.5	5790.5	6122.2	6412.2	6753.2	6945.8	6920.3	7075.7	7915.5	6402.9
47.5°	6110.6	6115.3	6307.8	6590.8	6892.4	7061.8	7212.6	7122.1	7187.1	8270.4	6771.8
50°	6509.6	6544.4	6699.9	6989.9	7140.7	7400.5	7593.0	7537.4	7516.5	8483.9	7003.8
52.5°	6611.7	6716.1	6799.6	7161.5	7514.2	7924.8	8170.7	8289.0	7917.8	8555.8	7298.4
55°	5841.5	5934.3	6228.9	6725.4	7655.7	8755.3	9094.0	9096.3	8442.1	8875.9	7504.9
57.5°	4670.0	4482.0	4663.0	5189.6	6472.5	8720.5	9544.1	9435.0	8704.3	8688.0	7326.2
60°	3229.3	3182.9	3194.5	3403.3	4479.7	6936.5	8504.8	8646.3	8015.3	7530.4	5799.8
62.5°	2558.9	2519.4	2468.4	2445.2	2781.6	4322.0	5999.3	6198.8	5604.9	4883.4	3438.1
65°	2004.4	1981.2	1988.2	2081.0	2078.6	2452.1	3280.3	3199.1	2561.2	1893.0	1081.1
67.5°	1352.5	1387.3	1415.1	1695.8	1839.7	1707.4	1584.5	1538.1	832.8	350.3	238.9
70°	760.9	765.6	795.7	1060.2	1396.6	1324.7	1092.7	1092.7	415.3	127.6	136.9
72.5°	415.3	401.3	373.5	457.0	621.7	631.0	487.2	424.5	123.0	83.5	76.6
75°	201.8	199.5	171.7	141.5	134.6	111.4	85.8	78.9	55.7	53.4	46.4
77.5°	41.8	39.4	20.9	20.9	23.2	25.5	32.5	32.5	39.4	39.4	32.5
80°	0.0	0.0	2.3	9.3	16.2	23.2	27.8	27.8	32.5	32.5	25.5
82.5°	0.0	0.0	2.3	7.0	13.9	20.9	25.5	27.8	32.5	34.8	27.8
85°	0.0	0.0	0.0	4.6	11.6	16.2	13.9	13.9	11.6	9.3	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°	5495.8	5495.8	5495.8	5495.8	5495.8	5495.8	5495.8	5495.8	5495.8	5495.8	5495.8
2.5°	5414.6	5410.0	5303.3	5243.0	5133.9	5038.8	4962.3	4906.6	4906.6	4871.8	4839.3
5°	5261.5	5222.1	4994.7	4848.6	4642.1	4489.0	4384.6	4303.4	4175.8	4210.6	4073.7
7.5°	5071.3	4971.5	4670.0	4447.3	4161.9	3943.8	3721.1	3523.9	3333.7	3247.9	3294.3
10°	4867.2	4693.2	4287.2	3934.6	3579.6	3180.6	2920.8	2605.2	2410.4	2398.8	2347.7
12.5°	4651.4	4454.2	3960.1	3472.9	3006.6	2526.4	2129.7	1835.0	1702.8	1556.7	1584.5
15°	4489.0	4196.7	3595.8	3008.9	2389.5	1904.6	1505.6	1278.3	1153.0	1118.2	1106.6
17.5°	4312.7	3999.5	3224.7	2514.8	1874.5	1371.1	1083.4	974.4	925.6	925.6	918.7
20°	4129.4	3776.8	2855.8	2055.4	1405.9	1023.1	867.6	832.8	830.5	828.2	828.2
22.5°	4008.8	3521.6	2521.7	1633.2	1060.2	818.9	754.0	740.0	749.3	777.2	777.2
25°	3881.2	3275.7	2152.9	1259.7	821.2	702.9	665.8	675.1	698.3	723.8	714.5
27.5°	3751.3	3115.6	1804.9	988.3	672.8	614.8	600.9	621.7	647.3	670.5	663.5
30°	3721.1	2944.0	1475.5	749.3	577.7	535.9	545.2	563.7	589.3	598.5	607.8
32.5°	3767.5	2809.4	1208.7	614.8	503.4	491.8	491.8	501.1	517.3	538.2	531.3
35°	3899.8	2732.8	955.8	533.6	461.7	450.1	447.7	457.0	466.3	473.3	466.3
37.5°	4101.6	2672.5	781.8	473.3	433.8	415.3	410.6	408.3	417.6	419.9	424.5
40°	4359.1	2705.0	663.5	436.1	406.0	385.1	371.2	371.2	371.2	378.1	380.5
42.5°	4637.5	2749.1	573.0	415.3	380.5	354.9	341.0	336.4	341.0	350.3	348.0
45°	4929.8	2834.9	515.0	382.8	357.3	324.8	306.2	301.6	313.2	331.7	329.4
47.5°	5203.5	2957.9	470.9	361.9	334.1	303.9	280.7	276.1	296.9	322.5	324.8
50°	5477.3	3171.3	454.7	345.7	317.8	283.0	262.1	257.5	280.7	313.2	320.1
52.5°	5792.8	3401.0	443.1	324.8	299.3	266.8	243.6	238.9	264.5	306.2	308.5
55°	5999.3	3595.8	433.8	287.7	264.5	241.3	222.7	220.4	248.2	285.3	294.6
57.5°	5758.0	3324.4	401.3	250.5	225.0	213.4	197.2	197.2	220.4	255.2	262.1
60°	4366.1	2187.7	285.3	201.8	190.2	183.3	176.3	176.3	194.9	220.4	222.7
62.5°	2556.5	1178.5	183.3	162.4	162.4	155.4	143.8	143.8	162.4	176.3	178.6
65°	758.6	378.1	148.5	139.2	136.9	125.3	113.7	111.4	125.3	132.2	129.9
67.5°	218.1	174.0	123.0	116.0	113.7	95.1	88.2	85.8	88.2	83.5	81.2
70°	129.9	118.3	95.1	97.4	85.8	69.6	62.6	60.3	55.7	48.7	44.1
72.5°	71.9	71.9	69.6	74.2	60.3	46.4	39.4	32.5	25.5	20.9	18.6
75°	44.1	46.4	48.7	51.0	39.4	30.2	25.5	16.2	9.3	4.6	4.6
77.5°	30.2	32.5	34.8	37.1	32.5	27.8	20.9	11.6	2.3	0.0	0.0
80°	23.2	25.5	30.2	32.5	34.8	37.1	27.8	11.6	2.3	0.0	0.0
82.5°	25.5	27.8	34.8	32.5	32.5	32.5	25.5	11.6	2.3	0.0	0.0
85°	4.6	7.0	11.6	11.6	16.2	20.9	16.2	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)