

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: P528617

Luminaire Tested: **GALN-SA3D-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14407 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

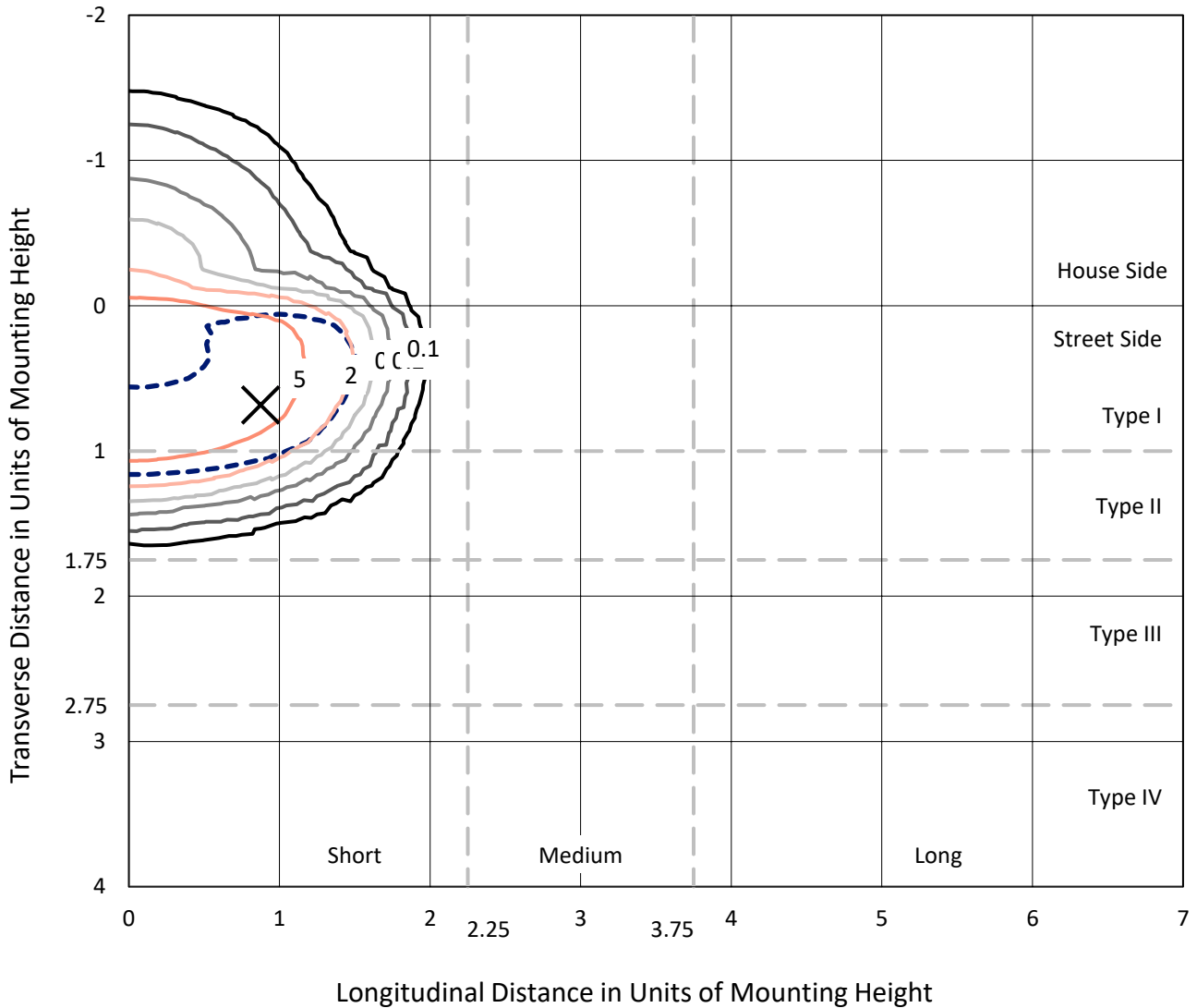
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

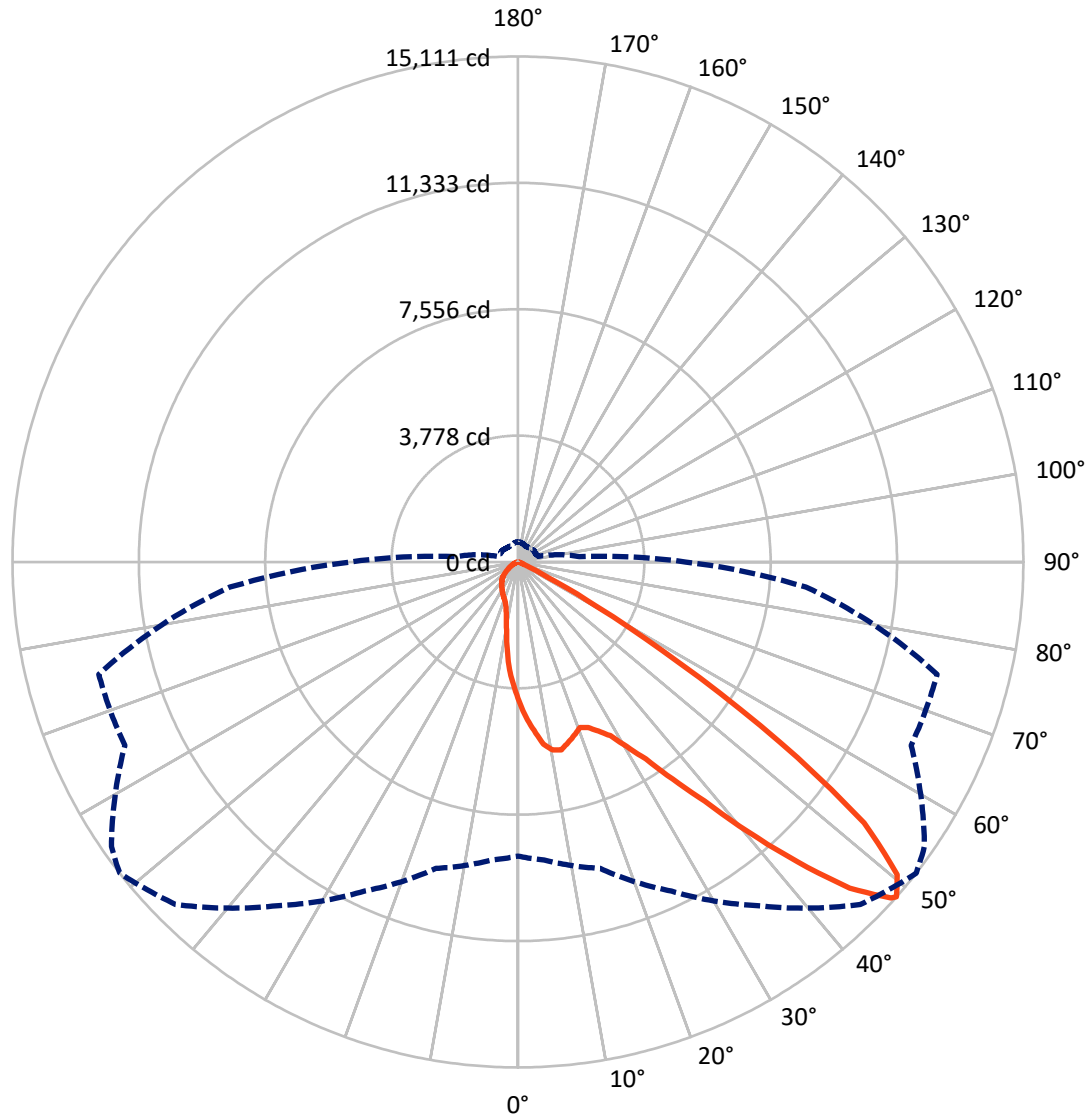
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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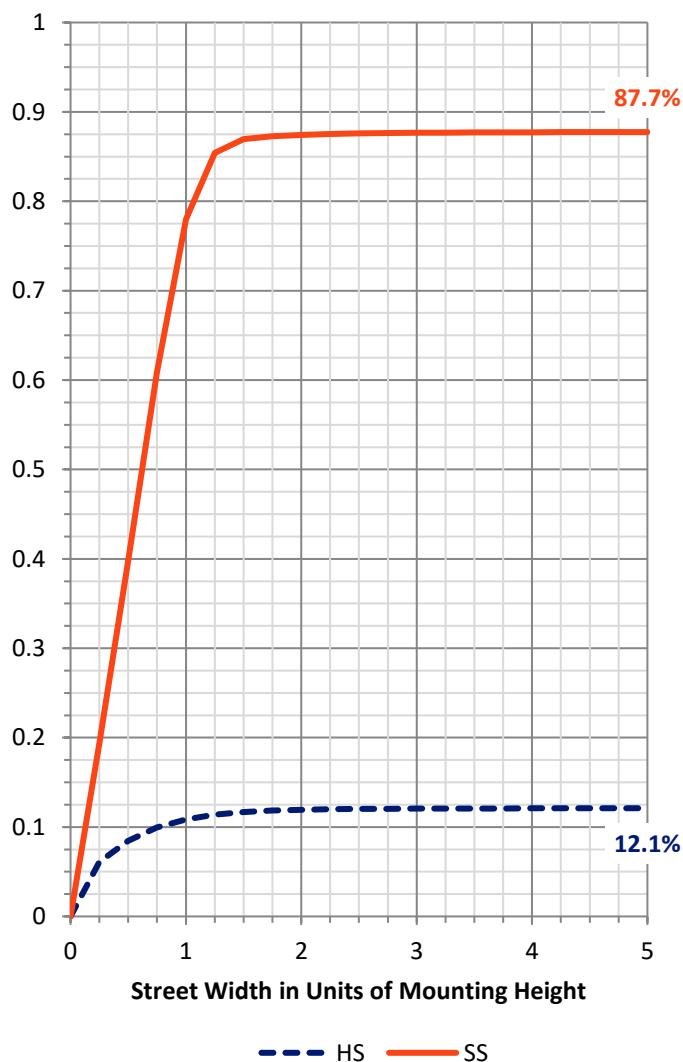
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1754.2	0.0	1754.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12652.8	0.0	12652.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	14407.0	0.0	14407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.8	2.6
10°-20°	995.2	6.9
20°-30°	1699.2	11.8
30°-40°	3129.0	21.7
40°-50°	4859.4	33.7
50°-60°	2924.5	20.3
60°-70°	338.2	2.3
70°-80°	65.5	0.5
80°-90°	15.1	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°	14407.0	100.0
0°-180°	14407.0	100.0

Coefficient of Utilization



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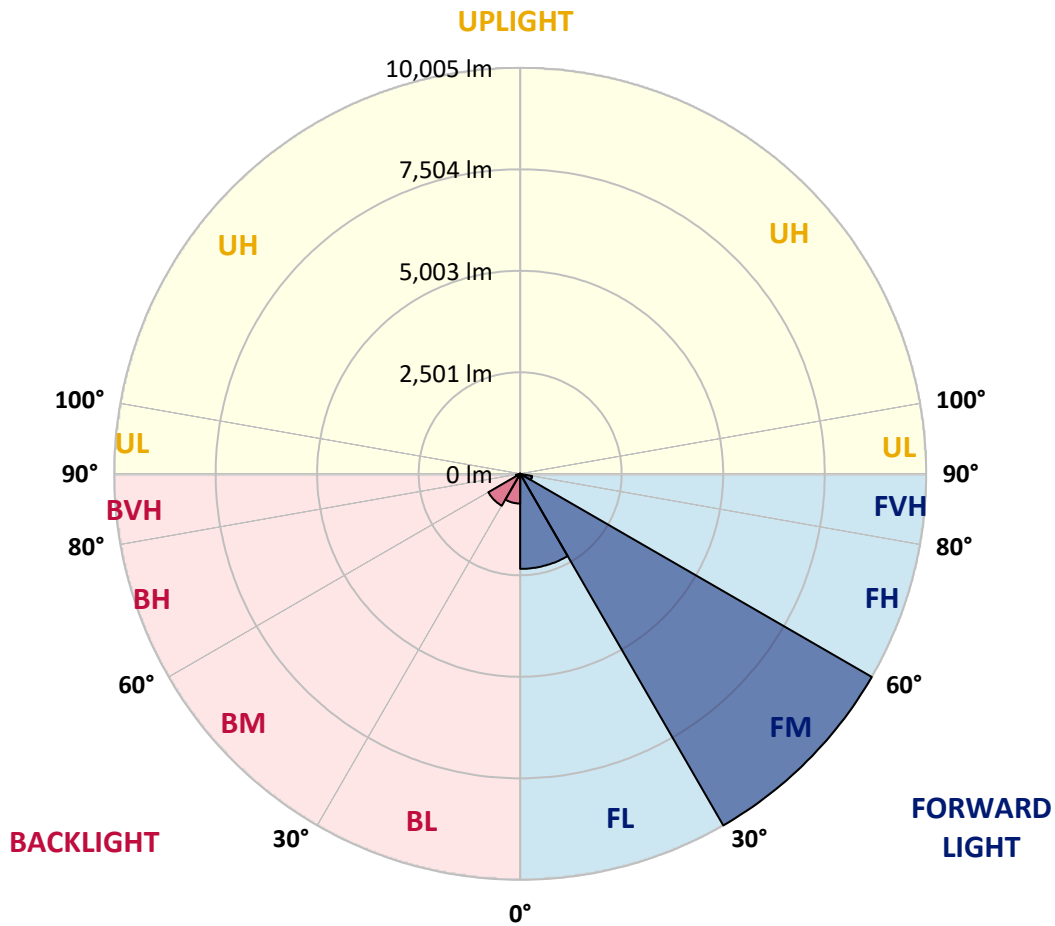
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2342.4	16.3			
FM (30°-60°)	10005.4	69.4			
FH (60°-80°)	297.8	2.1			G0/660
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	732.8	5.1	B2/1000		
BM (30°-60°)	907.6	6.3	B1/1000		
BH (60°-80°)	105.9	0.7	B0/110		G0/110
BVH (80°-90°)	7.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4160.5	4160.5	4160.5	4160.5	4160.5	4160.5	4160.5	4160.5	4160.5	4160.5	4160.5
2.5°	5042.6	4927.1	4937.6	4862.0	4817.9	4746.5	4649.8	4630.9	4525.9	4383.1	4238.2
5°	5496.2	5468.9	5504.6	5395.4	5399.6	5282.0	5055.2	5059.4	4817.9	4584.7	4360.0
7.5°	5525.6	5462.6	5498.3	5594.9	5651.6	5630.6	5502.5	5391.2	5162.3	4820.0	4492.3
10°	4948.1	5067.8	5105.6	5265.2	5492.0	5731.5	5716.8	5723.1	5531.9	5084.6	4605.7
12.5°	4601.5	4521.7	4649.8	4746.5	5088.8	5552.9	5765.1	5811.3	5826.0	5340.8	4719.2
15°	4444.0	4444.0	4465.0	4492.3	4740.2	5168.6	5601.2	5735.7	6052.8	5676.8	4897.7
17.5°	4542.7	4538.5	4567.9	4511.2	4603.6	4933.4	5450.0	5603.3	6306.9	6006.6	5038.4
20°	4843.1	4857.8	4838.9	4675.1	4681.4	4929.2	5282.0	5523.5	6479.1	6292.2	5225.3
22.5°	5261.0	5269.4	5162.3	4983.8	4931.3	5053.1	5378.6	5563.4	6617.7	6634.5	5282.0
25°	5744.1	5710.5	5689.5	5437.4	5277.8	5382.8	5597.0	5704.2	6703.8	6928.6	5443.7
27.5°	6414.0	6346.8	6218.7	5994.0	5876.4	5727.3	5880.6	6057.0	6949.6	7340.2	5620.1
30°	7403.2	7344.4	7094.5	6804.7	6495.9	6348.9	6397.2	6493.8	7392.7	7817.0	5853.3
32.5°	8892.3	8768.3	8407.1	7854.8	7434.7	7029.4	7016.8	7119.7	7789.7	8476.4	6130.5
35°	10532.5	10494.7	9963.4	9394.2	8581.4	7955.6	7966.1	8020.7	8549.9	9341.7	6493.8
37.5°	11622.5	11830.4	11492.3	10881.2	10198.6	9303.9	9077.1	9096.0	9593.7	10366.6	7149.1
40°	12464.7	12288.3	12328.2	12185.4	11719.1	11110.1	10608.1	10509.4	10801.3	11500.7	7800.2
42.5°	12097.2	12105.6	12351.3	12689.4	12804.9	12760.8	12248.4	12061.5	11834.6	12429.0	8419.7
45°	11059.7	11276.0	11595.2	12489.9	13275.4	14012.6	13911.7	13600.9	12548.7	13164.1	8776.7
47.5°	9404.7	9396.3	9919.3	11082.8	12828.0	14554.4	15012.3	14793.8	13054.9	13082.2	8703.2
48°	8793.6	8944.8	9484.5	10853.8	12544.5	14474.6	15111.0	14835.8	12968.8	12973.0	8640.2
50°	6500.1	6472.8	7144.9	8825.1	11204.6	13600.9	14695.1	14909.3	12966.7	12420.6	8199.2
52.5°	3433.8	3551.4	4040.8	5548.7	7922.0	11131.1	12962.5	13296.4	12508.8	11517.5	7564.9
55°	1459.6	1318.9	1694.9	2505.5	4456.6	7436.8	9509.7	10253.2	10576.6	10192.3	6617.7
57.5°	520.9	569.2	655.3	943.0	1873.4	4070.2	5670.5	6248.1	7327.6	7478.8	4509.1
60°	333.9	340.2	367.5	432.6	703.6	1568.9	2690.4	3150.3	3639.7	3757.3	2104.4
62.5°	258.3	260.4	273.0	283.5	333.9	609.1	1010.2	1197.1	1243.3	1069.0	552.4
65°	216.3	218.4	222.6	222.6	237.3	285.6	352.8	388.5	378.0	373.8	312.9
67.5°	165.9	170.1	178.5	178.5	186.9	174.3	195.3	207.9	235.2	285.6	266.7
70°	130.2	132.3	138.6	142.8	142.8	126.0	140.7	153.3	172.2	212.1	210.0
72.5°	100.8	105.0	109.2	109.2	102.9	86.1	100.8	111.3	123.9	147.0	142.8
75°	77.7	77.7	79.8	65.1	50.4	44.1	60.9	73.5	92.4	96.6	79.8
77.5°	21.0	23.1	21.0	18.9	21.0	31.5	39.9	46.2	58.8	58.8	52.5
80°	0.0	2.1	6.3	12.6	21.0	29.4	35.7	39.9	46.2	50.4	48.3
82.5°	0.0	2.1	6.3	12.6	18.9	23.1	31.5	33.6	37.8	44.1	44.1
85°	0.0	2.1	4.2	8.4	12.6	14.7	14.7	12.6	12.6	10.5	8.4
87.5°	0.0	0.0	2.1	4.2	4.2	6.3	6.3	6.3	6.3	6.3	6.3
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°	4160.5	4160.5	4160.5	4160.5	4160.5	4160.5	4160.5	4160.5	4160.5	4160.5	4160.5
2.5°	4181.5	4116.4	4017.7	3862.3	3713.2	3616.5	3524.1	3421.2	3364.5	3360.3	3328.8
5°	4231.9	4084.9	3849.7	3582.9	3297.3	3051.6	2803.8	2642.1	2497.1	2417.3	2402.6
7.5°	4259.2	4068.1	3688.0	3240.6	2753.4	2352.2	2075.0	1871.3	1791.5	1732.7	1730.6
10°	4315.9	4038.7	3446.4	2787.0	2184.2	1778.9	1587.8	1495.3	1451.2	1434.4	1409.2
12.5°	4357.9	3984.1	3198.6	2320.7	1726.4	1474.3	1390.3	1369.3	1371.4	1379.8	1369.3
15°	4416.7	3935.8	2864.7	1904.9	1449.1	1327.3	1327.3	1331.5	1360.9	1365.1	1363.0
17.5°	4412.5	3841.3	2520.2	1568.9	1281.1	1264.3	1270.6	1310.5	1329.4	1335.7	1321.0
20°	4462.9	3753.1	2165.3	1339.9	1186.6	1211.8	1253.8	1264.3	1287.4	1291.6	1274.8
22.5°	4448.2	3532.5	1835.6	1159.3	1115.2	1163.5	1205.5	1218.1	1211.8	1199.2	1197.1
25°	4420.9	3343.5	1533.1	1039.6	1062.7	1115.2	1155.1	1132.0	1119.4	1121.5	1123.6
27.5°	4372.6	3104.1	1283.2	955.6	991.3	1069.0	1066.9	1058.5	1071.1	1060.6	1071.1
30°	4364.2	2864.7	1077.4	880.0	938.8	995.5	999.7	1014.4	1029.1	1010.2	1029.1
32.5°	4376.8	2602.2	930.4	833.8	907.3	909.4	955.6	970.3	959.8	917.8	922.0
35°	4473.4	2400.5	823.3	808.6	856.9	859.0	903.1	884.2	838.0	812.8	827.5
37.5°	4677.2	2232.5	772.9	785.5	789.7	817.0	819.1	781.3	785.5	783.4	791.8
40°	4937.6	2104.4	737.2	764.5	760.3	779.2	703.6	724.6	743.5	749.8	754.0
42.5°	5116.1	2012.0	714.1	730.9	722.5	688.9	646.9	667.9	682.6	705.7	709.9
45°	5195.9	1938.5	686.8	672.1	672.1	611.2	594.4	598.6	632.2	657.4	653.2
47.5°	5065.7	1867.1	638.5	594.4	609.1	558.7	539.8	539.8	575.5	607.0	600.7
48°	5015.3	1837.7	640.6	577.6	588.1	550.3	531.4	527.2	567.1	596.5	596.5
50°	4765.4	1728.5	586.0	531.4	510.3	506.1	493.5	497.7	523.0	550.3	550.3
52.5°	4278.1	1493.2	495.6	455.7	417.9	443.1	449.4	441.0	453.6	478.8	476.7
55°	3570.3	1146.7	396.9	378.0	348.6	375.9	388.5	378.0	365.4	384.3	384.3
57.5°	2287.1	617.5	317.1	321.3	291.9	319.2	329.7	304.5	281.4	296.1	294.0
60°	1031.2	369.6	260.4	254.1	235.2	266.7	283.5	254.1	222.6	233.1	243.6
62.5°	386.4	262.5	197.4	193.2	189.0	218.4	226.8	203.7	172.2	178.5	180.6
65°	283.5	231.0	157.5	142.8	151.2	172.2	168.0	144.9	123.9	123.9	128.1
67.5°	241.5	201.6	128.1	111.3	111.3	113.4	105.0	92.4	86.1	90.3	94.5
70°	189.0	159.6	100.8	86.1	77.7	69.3	60.9	58.8	52.5	58.8	56.7
72.5°	121.8	107.1	77.7	65.1	58.8	48.3	39.9	37.8	31.5	29.4	29.4
75°	65.1	65.1	60.9	52.5	46.2	37.8	31.5	25.2	16.8	12.6	12.6
77.5°	46.2	50.4	54.6	50.4	42.0	31.5	25.2	16.8	8.4	4.2	4.2
80°	44.1	50.4	54.6	48.3	42.0	31.5	23.1	12.6	6.3	2.1	2.1
82.5°	39.9	46.2	50.4	44.1	37.8	27.3	21.0	12.6	6.3	2.1	2.1
85°	8.4	10.5	12.6	12.6	14.7	18.9	14.7	10.5	4.2	2.1	2.1
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	4.2	4.2	2.1	2.1	2.1
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)