

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: P530879

Luminaire Tested: **GALN-SA6A-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530879
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-SA6A-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 14871 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

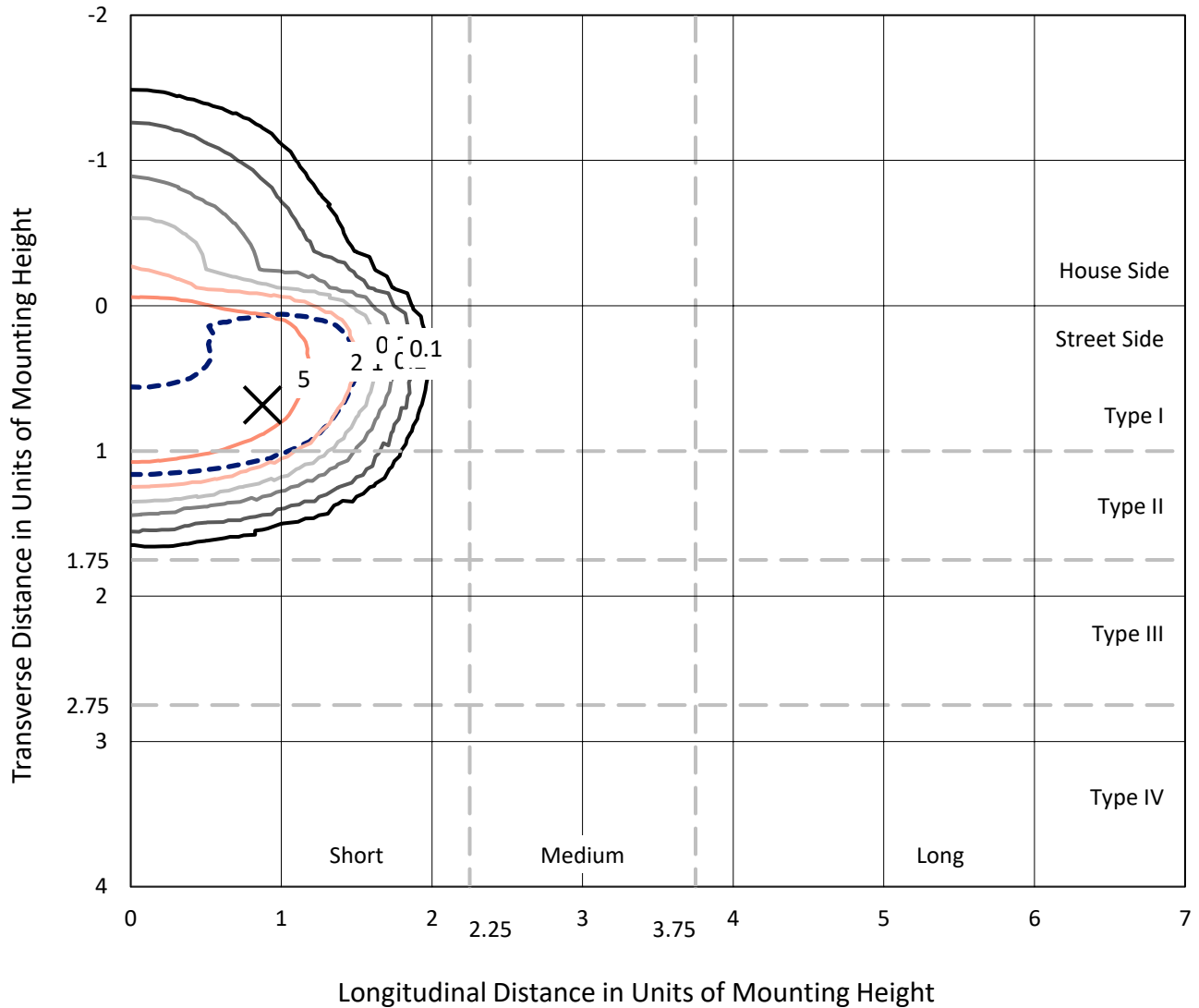
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

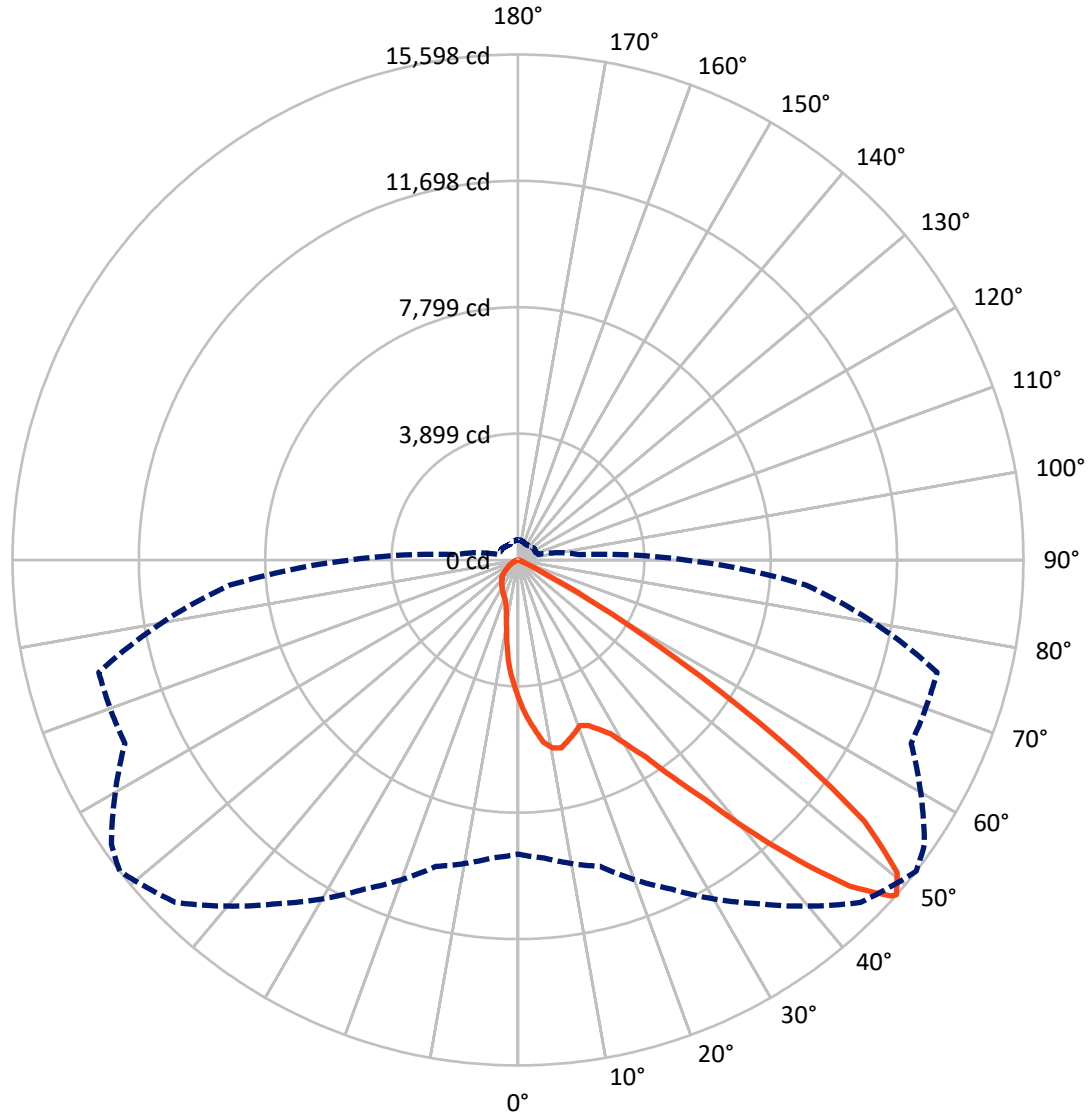
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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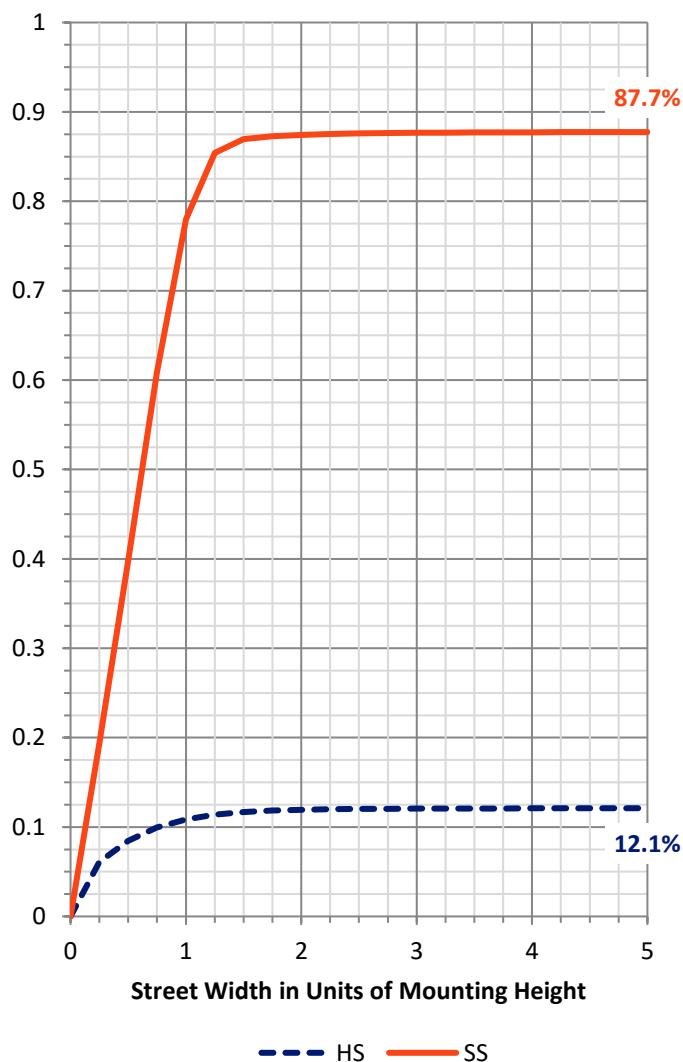
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1810.7	0.0	1810.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13060.3	0.0	13060.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	14871.0	0.0	14871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.1	2.6
10°-20°	1027.2	6.9
20°-30°	1753.9	11.8
30°-40°	3229.8	21.7
40°-50°	5015.9	33.7
50°-60°	3018.7	20.3
60°-70°	349.2	2.3
70°-80°	67.6	0.5
80°-90°	15.6	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°	14871.0	100.0
0°-180°	14871.0	100.0

Coefficient of Utilization



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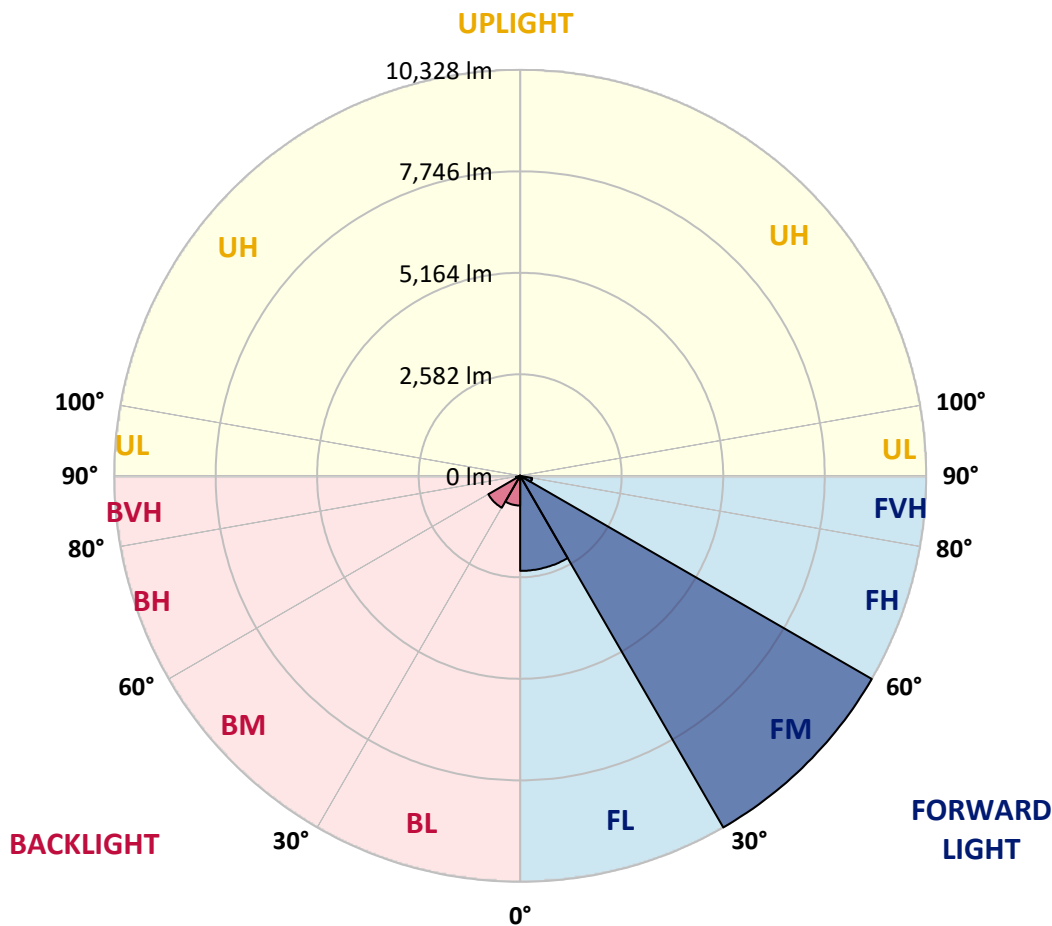
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2417.8	16.3			
FM (30°-60°)	10327.6	69.4			
FH (60°-80°)	307.5	2.1			G0/660
FVH (80°-90°)	7.4	0.1			G0/10
BL (0°-30°)	756.4	5.1	B2/1000		
BM (30°-60°)	936.8	6.3	B1/1000		
BH (60°-80°)	109.3	0.7	B0/110		G0/110
BVH (80°-90°)	8.2	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°	4294.5	4294.5	4294.5	4294.5	4294.5	4294.5	4294.5	4294.5	4294.5	4294.5	4294.5
2.5°	5205.0	5085.8	5096.6	5018.6	4973.0	4899.3	4799.6	4780.1	4671.7	4524.3	4374.7
5°	5673.2	5645.1	5681.9	5569.2	5573.5	5452.1	5218.0	5222.3	4973.0	4732.4	4500.4
7.5°	5703.6	5638.6	5675.4	5775.1	5833.7	5812.0	5679.7	5564.9	5328.6	4975.2	4637.0
10°	5107.4	5231.0	5270.0	5434.8	5668.9	5916.0	5900.9	5907.4	5710.1	5248.3	4754.1
12.5°	4749.7	4667.4	4799.6	4899.3	5252.7	5731.8	5950.7	5998.4	6013.6	5512.8	4871.1
15°	4587.2	4587.2	4608.8	4637.0	4892.8	5335.1	5781.6	5920.4	6247.7	5859.7	5055.4
17.5°	4689.0	4684.7	4715.1	4656.5	4751.9	5092.3	5625.6	5783.8	6510.0	6200.0	5200.7
20°	4999.0	5014.2	4994.7	4825.6	4832.1	5087.9	5452.1	5701.4	6687.8	6494.9	5393.6
22.5°	5430.4	5439.1	5328.6	5144.3	5090.1	5215.8	5551.8	5742.6	6830.9	6848.2	5452.1
25°	5929.1	5894.4	5872.7	5612.5	5447.8	5556.2	5777.3	5887.9	6919.8	7151.7	5619.1
27.5°	6620.6	6551.2	6419.0	6187.0	6065.6	5911.7	6070.0	6252.1	7173.4	7576.6	5801.1
30°	7641.6	7580.9	7323.0	7023.8	6705.1	6553.4	6603.3	6703.0	7630.8	8068.7	6041.8
32.5°	9178.6	9050.7	8677.9	8107.7	7674.2	7255.8	7242.8	7349.0	8040.5	8749.4	6327.9
35°	10871.7	10832.7	10284.2	9696.8	8857.8	8211.8	8222.6	8279.0	8825.3	9642.6	6703.0
37.5°	11996.8	12211.5	11862.4	11231.6	10527.0	9603.5	9369.4	9388.9	9902.7	10700.5	7379.3
40°	12866.2	12684.1	12725.2	12577.8	12096.6	11467.9	10949.8	10847.9	11149.2	11871.1	8051.4
42.5°	12486.8	12495.4	12749.1	13098.1	13217.3	13171.8	12642.9	12449.9	12215.8	12829.3	8690.9
45°	11415.9	11639.2	11968.7	12892.2	13702.9	14463.9	14359.8	14039.0	12952.9	13588.0	9059.4
47.5°	9707.6	9698.9	10238.7	11439.7	13241.2	15023.2	15495.7	15270.3	13475.3	13503.5	8983.5
48°	9076.8	9232.8	9790.0	11203.4	12948.5	14940.8	15597.6	15313.6	13386.4	13390.8	8918.5
50°	6709.5	6681.3	7375.0	9109.3	11565.4	14039.0	15168.4	15389.5	13384.3	12820.6	8463.3
52.5°	3544.4	3665.8	4170.9	5727.4	8177.1	11489.6	13379.9	13724.6	12911.7	11888.5	7808.6
55°	1506.7	1361.4	1749.4	2586.2	4600.2	7676.3	9816.0	10583.4	10917.3	10520.5	6830.9
57.5°	537.6	587.5	676.4	973.4	1933.7	4201.3	5853.2	6449.3	7563.6	7719.7	4654.4
60°	344.7	351.2	379.4	446.6	726.2	1619.4	2777.0	3251.8	3756.9	3878.3	2172.2
62.5°	266.6	268.8	281.8	292.7	344.7	628.7	1042.7	1235.7	1283.4	1103.4	570.1
65°	223.3	225.5	229.8	229.8	245.0	294.8	364.2	401.1	390.2	385.9	323.0
67.5°	171.3	175.6	184.3	184.3	192.9	179.9	201.6	214.6	242.8	294.8	275.3
70°	134.4	136.6	143.1	147.4	147.4	130.1	145.2	158.3	177.8	219.0	216.8
72.5°	104.1	108.4	112.7	112.7	106.2	88.9	104.1	114.9	127.9	151.7	147.4
75°	80.2	80.2	82.4	67.2	52.0	45.5	62.9	75.9	95.4	99.7	82.4
77.5°	21.7	23.8	21.7	19.5	21.7	32.5	41.2	47.7	60.7	60.7	54.2
80°	0.0	2.2	6.5	13.0	21.7	30.3	36.9	41.2	47.7	52.0	49.9
82.5°	0.0	2.2	6.5	13.0	19.5	23.8	32.5	34.7	39.0	45.5	45.5
85°	0.0	2.2	4.3	8.7	13.0	15.2	15.2	13.0	13.0	10.8	8.7
87.5°	0.0	0.0	2.2	4.3	4.3	6.5	6.5	6.5	6.5	6.5	6.5
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°	4294.5	4294.5	4294.5	4294.5	4294.5	4294.5	4294.5	4294.5	4294.5	4294.5	4294.5
2.5°	4316.2	4249.0	4147.1	3986.7	3832.7	3733.0	3637.6	3531.4	3472.9	3468.5	3436.0
5°	4368.2	4216.5	3973.7	3698.3	3403.5	3149.9	2894.1	2727.1	2577.6	2495.2	2480.0
7.5°	4396.4	4199.1	3806.7	3345.0	2842.0	2428.0	2141.8	1931.5	1849.2	1788.5	1786.3
10°	4454.9	4168.8	3557.4	2876.7	2254.6	1836.2	1638.9	1543.5	1498.0	1480.6	1454.6
12.5°	4498.3	4112.4	3301.6	2395.5	1782.0	1521.8	1435.1	1413.4	1415.6	1424.3	1413.4
15°	4559.0	4062.5	2956.9	1966.2	1495.8	1370.1	1370.1	1374.4	1404.8	1409.1	1406.9
17.5°	4554.6	3965.0	2601.4	1619.4	1322.4	1305.0	1311.5	1352.7	1372.2	1378.7	1363.6
20°	4606.7	3873.9	2235.0	1383.1	1224.8	1250.8	1294.2	1305.0	1328.9	1333.2	1315.9
22.5°	4591.5	3646.3	1894.7	1196.6	1151.1	1201.0	1244.3	1257.3	1250.8	1237.8	1235.7
25°	4563.3	3451.2	1582.5	1073.1	1096.9	1151.1	1192.3	1168.5	1155.5	1157.6	1159.8
27.5°	4513.4	3204.1	1324.6	986.4	1023.2	1103.4	1101.3	1092.6	1105.6	1094.8	1105.6
30°	4504.8	2956.9	1112.1	908.3	969.0	1027.6	1031.9	1047.1	1062.2	1042.7	1062.2
32.5°	4517.8	2686.0	960.4	860.6	936.5	938.7	986.4	1001.5	990.7	947.3	951.7
35°	4617.5	2477.8	849.8	834.6	884.5	886.6	932.2	912.7	865.0	839.0	854.1
37.5°	4827.8	2304.4	797.8	810.8	815.1	843.3	845.5	806.4	810.8	808.6	817.3
40°	5096.6	2172.2	760.9	789.1	784.8	804.3	726.2	747.9	767.4	773.9	778.3
42.5°	5280.9	2076.8	737.1	754.4	745.7	711.1	667.7	689.4	704.5	728.4	732.7
45°	5363.2	2000.9	708.9	693.7	693.7	630.8	613.5	617.8	652.5	678.5	674.2
47.5°	5228.8	1927.2	659.0	613.5	628.7	576.6	557.1	557.1	594.0	626.5	620.0
48°	5176.8	1896.9	661.2	596.2	607.0	568.0	548.5	544.1	585.3	615.7	615.7
50°	4918.8	1784.1	604.8	548.5	526.8	522.5	509.4	513.8	539.8	568.0	568.0
52.5°	4415.9	1541.3	511.6	470.4	431.4	457.4	463.9	455.2	468.3	494.3	492.1
55°	3685.3	1183.6	409.7	390.2	359.9	388.0	401.1	390.2	377.2	396.7	396.7
57.5°	2360.8	637.3	327.3	331.7	301.3	329.5	340.4	314.3	290.5	305.7	303.5
60°	1064.4	381.5	268.8	262.3	242.8	275.3	292.7	262.3	229.8	240.6	251.5
62.5°	398.9	271.0	203.8	199.4	195.1	225.5	234.1	210.3	177.8	184.3	186.4
65°	292.7	238.5	162.6	147.4	156.1	177.8	173.4	149.6	127.9	127.9	132.2
67.5°	249.3	208.1	132.2	114.9	114.9	117.1	108.4	95.4	88.9	93.2	97.6
70°	195.1	164.8	104.1	88.9	80.2	71.5	62.9	60.7	54.2	60.7	58.5
72.5°	125.7	110.6	80.2	67.2	60.7	49.9	41.2	39.0	32.5	30.3	30.3
75°	67.2	67.2	62.9	54.2	47.7	39.0	32.5	26.0	17.3	13.0	13.0
77.5°	47.7	52.0	56.4	52.0	43.4	32.5	26.0	17.3	8.7	4.3	4.3
80°	45.5	52.0	56.4	49.9	43.4	32.5	23.8	13.0	6.5	2.2	2.2
82.5°	41.2	47.7	52.0	45.5	39.0	28.2	21.7	13.0	6.5	2.2	2.2
85°	8.7	10.8	13.0	13.0	15.2	19.5	15.2	10.8	4.3	2.2	2.2
87.5°	6.5	6.5	6.5	6.5	6.5	6.5	4.3	4.3	2.2	2.2	2.2
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)