

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: P531243

Luminaire Tested: **GALN-SA6C-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531243
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-SA6C-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA 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: 28971 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

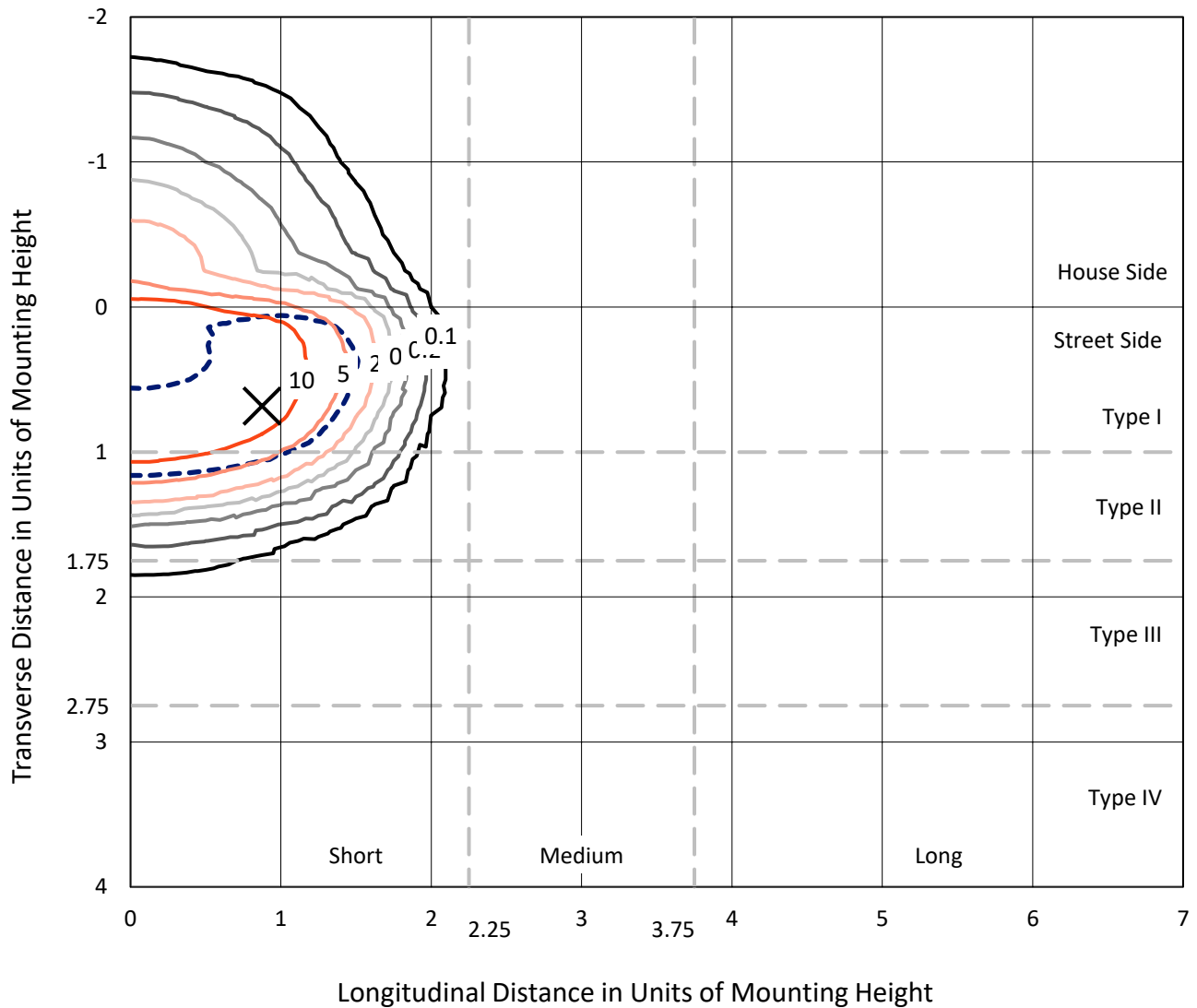
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

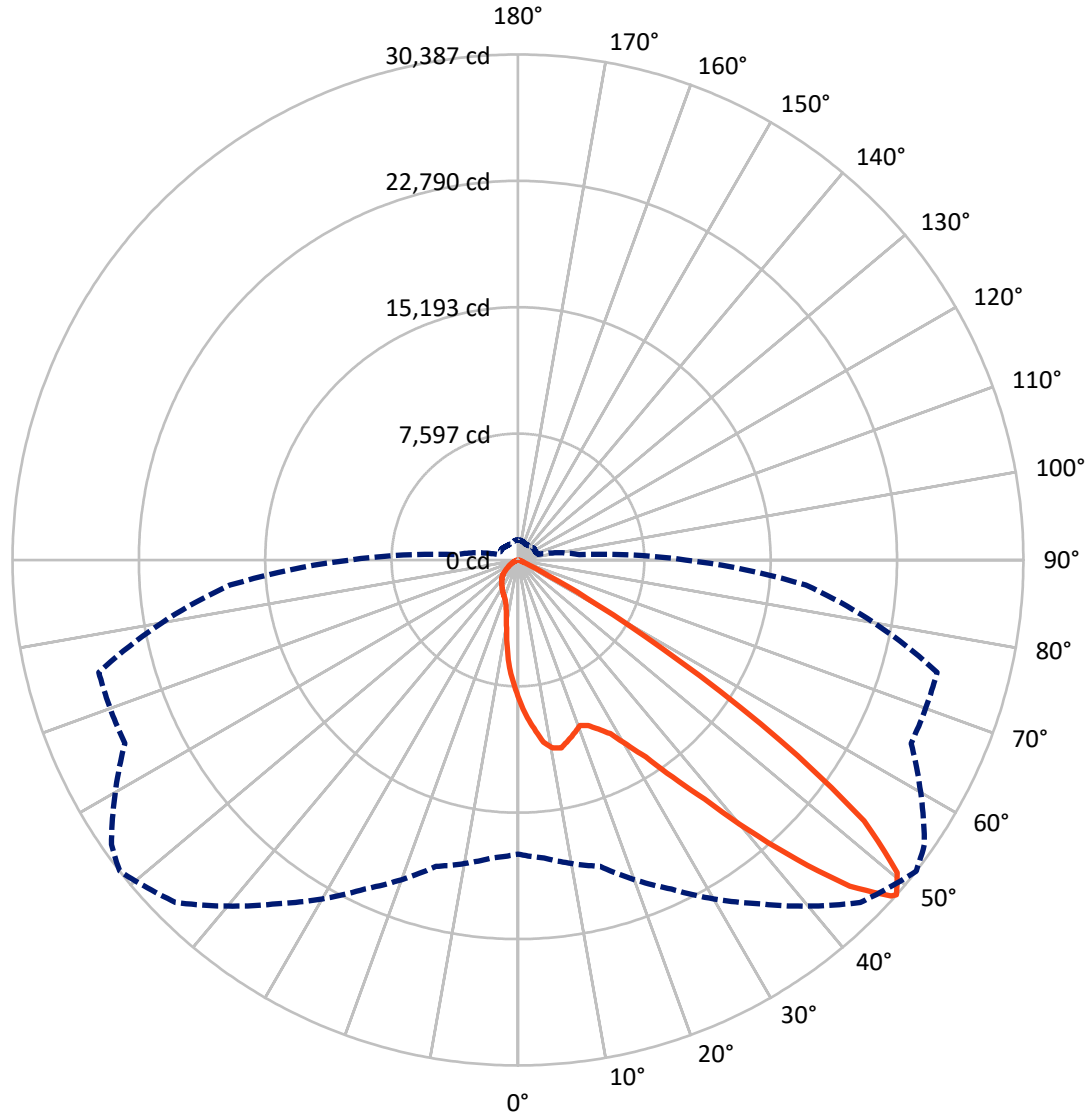
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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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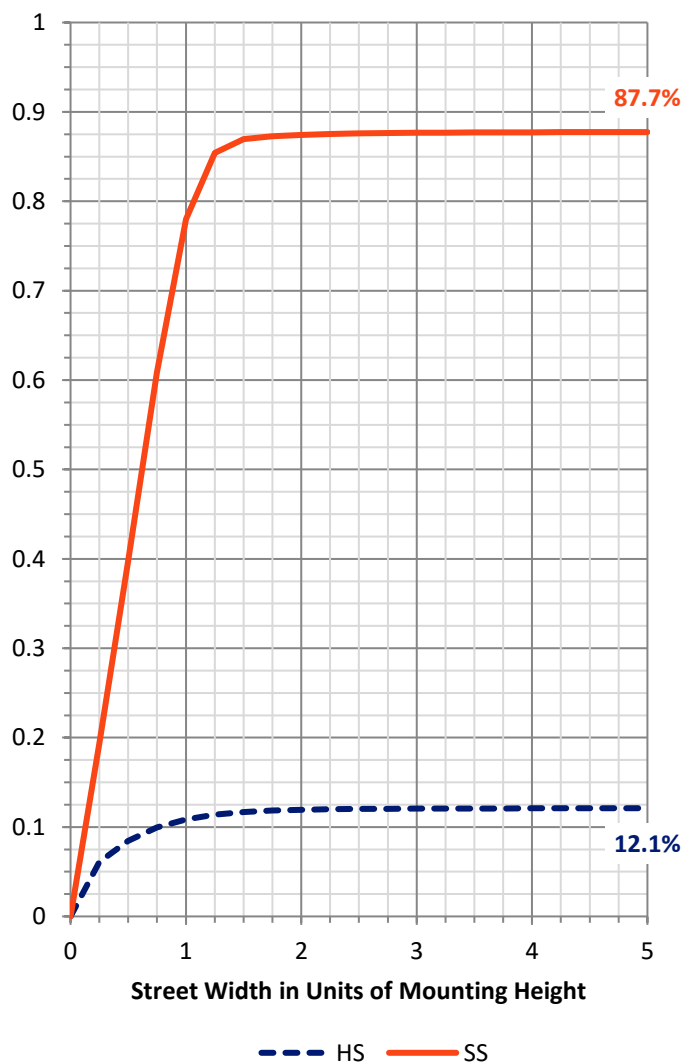
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3527.5	0.0	3527.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	25443.6	0.0	25443.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	28971.0	0.0	28971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.8	2.6
10°-20°	2001.2	6.9
20°-30°	3416.9	11.8
30°-40°	6292.2	21.7
40°-50°	9771.7	33.7
50°-60°	5880.9	20.3
60°-70°	680.2	2.3
70°-80°	131.7	0.5
80°-90°	30.4	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°	28971.0	100.0
0°-180°	28971.0	100.0

Coefficient of Utilization



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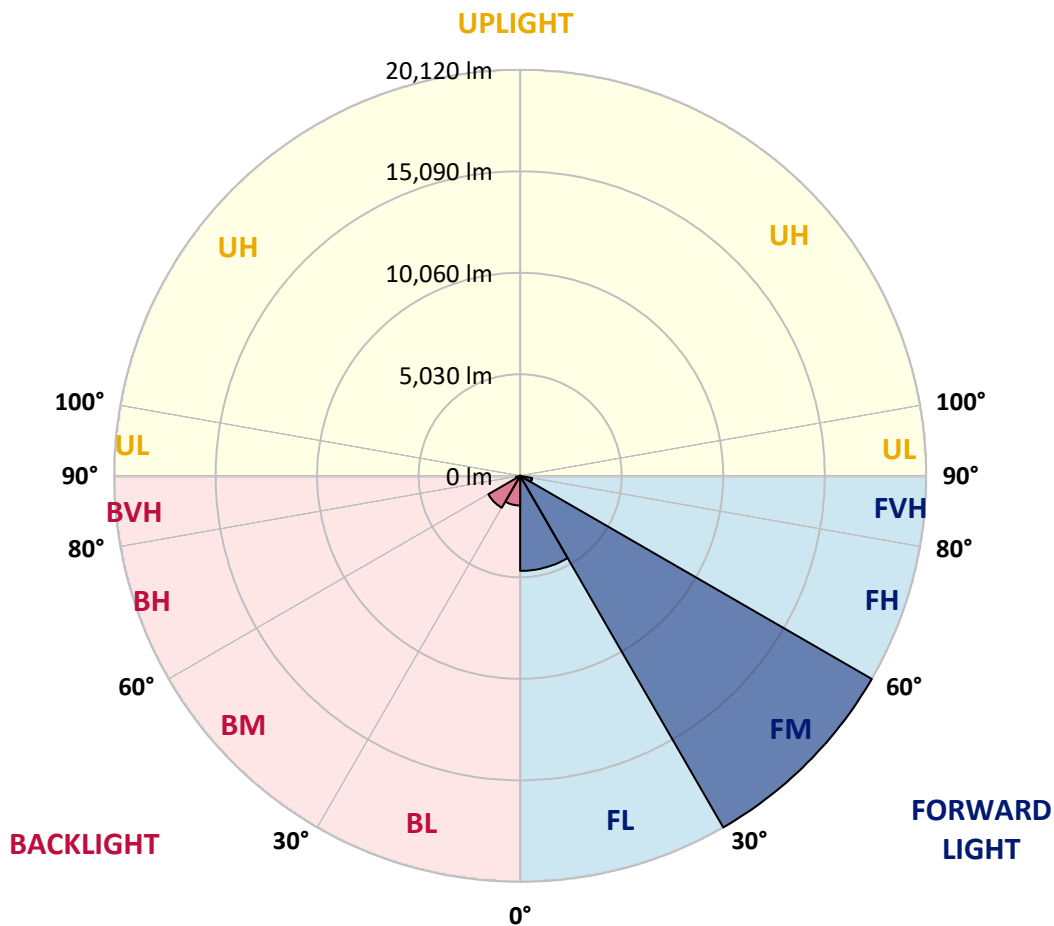
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4710.3	16.3			
FM (30°-60°)	20119.8	69.4			
FH (60°-80°)	599.0	2.1			G0/660
FVH (80°-90°)	14.5	0.1			G1/100
BL (0°-30°)	1473.5	5.1	B3/2500		
BM (30°-60°)	1825.1	6.3	B2/2500		
BH (60°-80°)	212.9	0.7	B1/500		G1/500
BVH (80°-90°)	16.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8366.3	8366.3	8366.3	8366.3	8366.3	8366.3	8366.3	8366.3	8366.3	8366.3	8366.3
2.5°	10140.1	9907.8	9929.0	9776.9	9688.2	9544.6	9350.4	9312.4	9101.2	8814.0	8522.6
5°	11052.4	10997.5	11069.3	10849.6	10858.1	10621.6	10165.5	10173.9	9688.2	9219.4	8767.6
7.5°	11111.5	10984.8	11056.6	11250.9	11364.9	11322.6	11065.0	10841.2	10380.9	9692.5	9033.6
10°	9950.1	10190.8	10266.8	10587.8	11043.9	11525.4	11495.8	11508.5	11124.2	10224.6	9261.7
12.5°	9253.2	9092.8	9350.4	9544.6	10233.0	11166.4	11592.9	11685.9	11715.4	10739.8	9489.7
15°	8936.5	8936.5	8978.7	9033.6	9532.0	10393.5	11263.5	11533.8	12171.5	11415.6	9848.7
17.5°	9135.0	9126.5	9185.7	9071.6	9257.5	9920.5	10959.4	11267.7	12682.5	12078.6	10131.7
20°	9738.9	9768.5	9730.5	9401.1	9413.7	9912.1	10621.6	11107.3	13028.9	12653.0	10507.6
22.5°	10579.3	10596.2	10380.9	10021.9	9916.3	10161.2	10815.9	11187.5	13307.6	13341.4	10621.6
25°	11550.7	11483.1	11440.9	10934.1	10613.1	10824.3	11255.1	11470.5	13480.8	13932.6	10946.8
27.5°	12897.9	12762.8	12505.2	12053.3	11816.8	11516.9	11825.2	12180.0	13974.9	14760.4	11301.5
30°	14887.1	14768.9	14266.3	13683.5	13062.6	12767.0	12864.2	13058.4	14866.0	15719.1	11770.3
32.5°	17881.4	17632.2	16905.8	15795.1	14950.5	14135.4	14110.0	14317.0	15664.2	17045.2	12327.8
35°	21179.8	21103.8	20035.3	18890.8	17256.4	15997.8	16019.0	16128.8	17193.0	18785.2	13058.4
37.5°	23371.7	23789.8	23109.9	21880.9	20508.3	18709.2	18253.1	18291.1	19292.0	20846.2	14376.1
40°	25065.2	24710.5	24790.7	24503.5	23566.0	22341.2	21331.9	21133.4	21720.4	23126.8	15685.3
42.5°	24326.2	24343.1	24837.2	25517.1	25749.4	25660.7	24630.2	24254.4	23798.3	24993.4	16931.2
45°	22239.9	22674.9	23316.8	25115.9	26695.4	28177.8	27975.1	27350.0	25234.2	26471.6	17649.1
47.5°	18911.9	18895.0	19946.6	22286.3	25795.9	29267.4	30188.1	29748.9	26252.0	26306.9	17501.3
48°	17682.9	17987.0	19072.4	21826.0	25225.7	29106.9	30386.6	29833.3	26078.8	26087.3	17374.6
50°	13071.1	13016.2	14367.6	17746.3	22531.3	27350.0	29550.4	29981.2	26074.6	24976.6	16487.7
52.5°	6905.1	7141.6	8125.6	11157.9	15930.3	22383.5	26066.2	26737.7	25153.9	23160.5	15212.3
55°	2935.2	2652.2	3408.2	5038.4	8961.8	14954.7	19123.1	20618.1	21268.5	20495.6	13307.6
57.5°	1047.4	1144.5	1317.7	1896.3	3767.2	8184.7	11402.9	12564.3	14735.1	15039.1	9067.4
60°	671.5	684.2	739.1	870.0	1414.8	3154.8	5410.0	6334.9	7319.0	7555.5	4231.7
62.5°	519.5	523.7	549.0	570.1	671.5	1224.8	2031.4	2407.3	2500.2	2149.7	1110.7
65°	435.0	439.2	447.7	447.7	477.2	574.4	709.5	781.3	760.2	751.7	629.3
67.5°	333.6	342.1	359.0	359.0	375.9	350.5	392.8	418.1	473.0	574.4	536.4
70°	261.8	266.1	278.7	287.2	287.2	253.4	283.0	308.3	346.3	426.6	422.3
72.5°	202.7	211.2	219.6	219.6	206.9	173.2	202.7	223.8	249.2	295.6	287.2
75°	156.3	156.3	160.5	130.9	101.4	88.7	122.5	147.8	185.8	194.3	160.5
77.5°	42.2	46.5	42.2	38.0	42.2	63.3	80.2	92.9	118.3	118.3	105.6
80°	0.0	4.2	12.7	25.3	42.2	59.1	71.8	80.2	92.9	101.4	97.1
82.5°	0.0	4.2	12.7	25.3	38.0	46.5	63.3	67.6	76.0	88.7	88.7
85°	0.0	4.2	8.4	16.9	25.3	29.6	29.6	25.3	25.3	21.1	16.9
87.5°	0.0	0.0	4.2	8.4	8.4	12.7	12.7	12.7	12.7	12.7	12.7
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°	8366.3	8366.3	8366.3	8366.3	8366.3	8366.3	8366.3	8366.3	8366.3	8366.3	8366.3
2.5°	8408.6	8277.7	8079.2	7766.6	7466.8	7272.5	7086.7	6879.7	6765.7	6757.3	6693.9
5°	8509.9	8214.3	7741.3	7204.9	6630.6	6136.4	5638.1	5312.9	5021.5	4861.0	4831.4
7.5°	8564.8	8180.5	7416.1	6516.5	5536.7	4730.1	4172.6	3763.0	3602.5	3484.2	3480.0
10°	8678.9	8121.4	6930.4	5604.3	4392.2	3577.1	3192.8	3007.0	2918.3	2884.5	2833.8
12.5°	8763.3	8011.6	6432.1	4666.7	3471.5	2964.8	2795.8	2753.6	2757.8	2774.7	2753.6
15°	8881.6	7914.5	5760.6	3830.5	2914.1	2669.1	2669.1	2677.6	2736.7	2745.1	2740.9
17.5°	8873.1	7724.4	5068.0	3154.8	2576.2	2542.4	2555.1	2635.3	2673.3	2686.0	2656.5
20°	8974.5	7547.0	4354.2	2694.5	2386.2	2436.8	2521.3	2542.4	2588.9	2597.3	2563.5
22.5°	8944.9	7103.6	3691.2	2331.3	2242.6	2339.7	2424.2	2449.5	2436.8	2411.5	2407.3
25°	8890.0	6723.5	3083.0	2090.5	2137.0	2242.6	2322.8	2276.4	2251.0	2255.2	2259.5
27.5°	8792.9	6242.0	2580.4	1921.6	1993.4	2149.7	2145.4	2128.5	2153.9	2132.8	2153.9
30°	8776.0	5760.6	2166.5	1769.6	1887.8	2001.8	2010.3	2039.9	2069.4	2031.4	2069.4
32.5°	8801.3	5232.7	1870.9	1676.6	1824.5	1828.7	1921.6	1951.2	1930.0	1845.6	1854.0
35°	8995.6	4827.2	1655.5	1626.0	1723.1	1727.3	1816.0	1778.0	1685.1	1634.4	1664.0
37.5°	9405.3	4489.4	1554.2	1579.5	1588.0	1642.9	1647.1	1571.1	1579.5	1575.3	1592.2
40°	9929.0	4231.7	1482.4	1537.3	1528.8	1566.8	1414.8	1457.0	1495.0	1507.7	1516.2
42.5°	10287.9	4045.9	1435.9	1469.7	1452.8	1385.2	1300.8	1343.0	1372.6	1419.0	1427.5
45°	10448.4	3898.1	1381.0	1351.5	1351.5	1229.0	1195.2	1203.6	1271.2	1321.9	1313.4
47.5°	10186.6	3754.5	1283.9	1195.2	1224.8	1123.4	1085.4	1085.4	1157.2	1220.5	1207.9
48°	10085.2	3695.4	1288.1	1161.4	1182.5	1106.5	1068.5	1060.0	1140.3	1199.4	1199.4
50°	9582.7	3475.8	1178.3	1068.5	1026.3	1017.8	992.5	1000.9	1051.6	1106.5	1106.5
52.5°	8602.8	3002.8	996.7	916.5	840.4	891.1	903.8	886.9	912.2	962.9	958.7
55°	7179.6	2305.9	798.2	760.2	701.1	756.0	781.3	760.2	734.9	772.9	772.9
57.5°	4599.2	1241.6	637.7	646.2	587.0	641.9	663.1	612.4	565.9	595.5	591.3
60°	2073.6	743.3	523.7	511.0	473.0	536.4	570.1	511.0	447.7	468.8	489.9
62.5°	777.1	527.9	397.0	388.5	380.1	439.2	456.1	409.7	346.3	359.0	363.2
65°	570.1	464.6	316.7	287.2	304.1	346.3	337.9	291.4	249.2	249.2	257.6
67.5°	485.7	405.4	257.6	223.8	223.8	228.1	211.2	185.8	173.2	181.6	190.0
70°	380.1	321.0	202.7	173.2	156.3	139.4	122.5	118.3	105.6	118.3	114.0
72.5°	245.0	215.4	156.3	130.9	118.3	97.1	80.2	76.0	63.3	59.1	59.1
75°	130.9	130.9	122.5	105.6	92.9	76.0	63.3	50.7	33.8	25.3	25.3
77.5°	92.9	101.4	109.8	101.4	84.5	63.3	50.7	33.8	16.9	8.4	8.4
80°	88.7	101.4	109.8	97.1	84.5	63.3	46.5	25.3	12.7	4.2	4.2
82.5°	80.2	92.9	101.4	88.7	76.0	54.9	42.2	25.3	12.7	4.2	4.2
85°	16.9	21.1	25.3	25.3	29.6	38.0	29.6	21.1	8.4	4.2	4.2
87.5°	12.7	12.7	12.7	12.7	12.7	12.7	8.4	8.4	4.2	4.2	4.2
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)