

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: P530334

Luminaire Tested: **GALN-SA5C-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31769 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

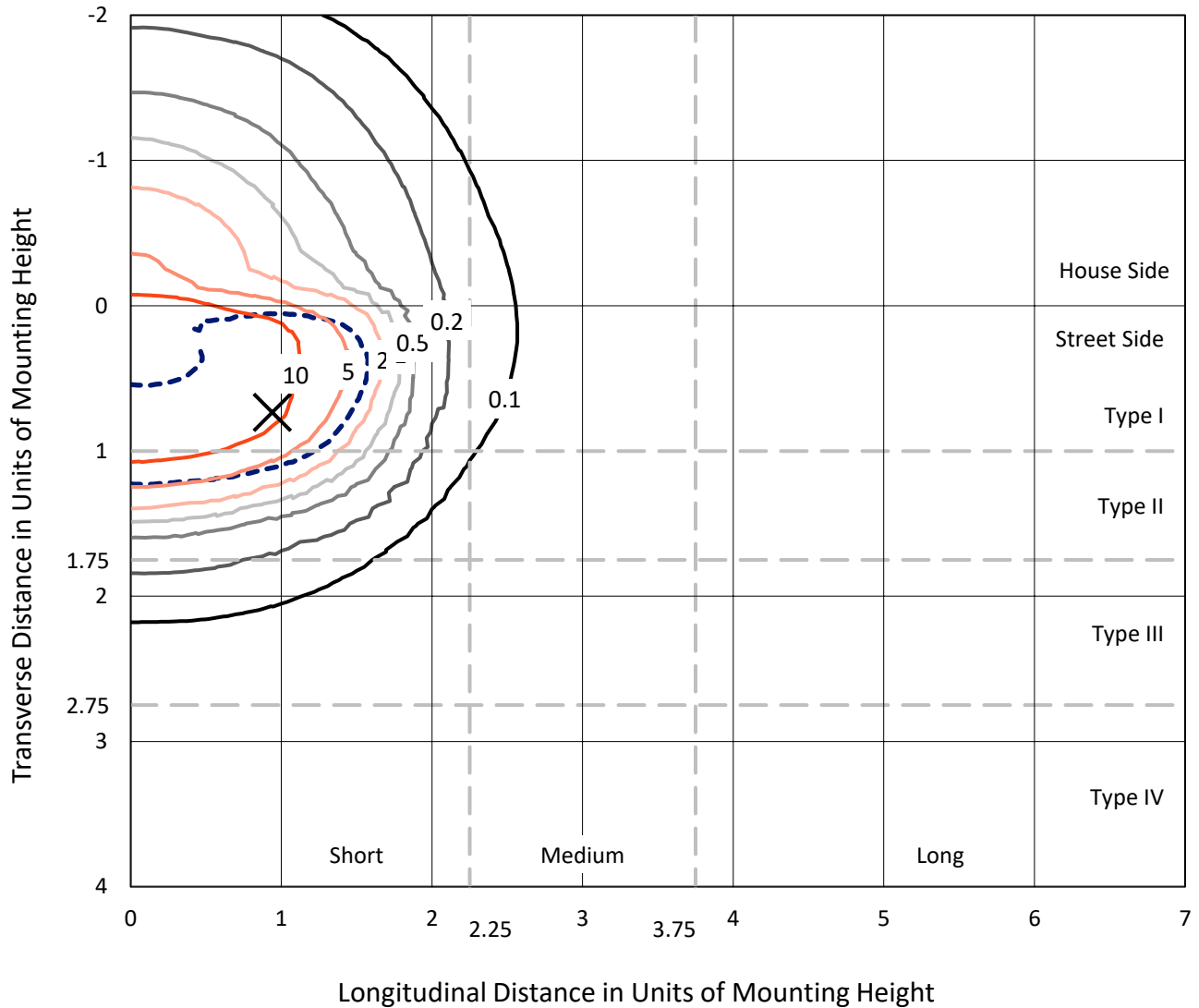
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

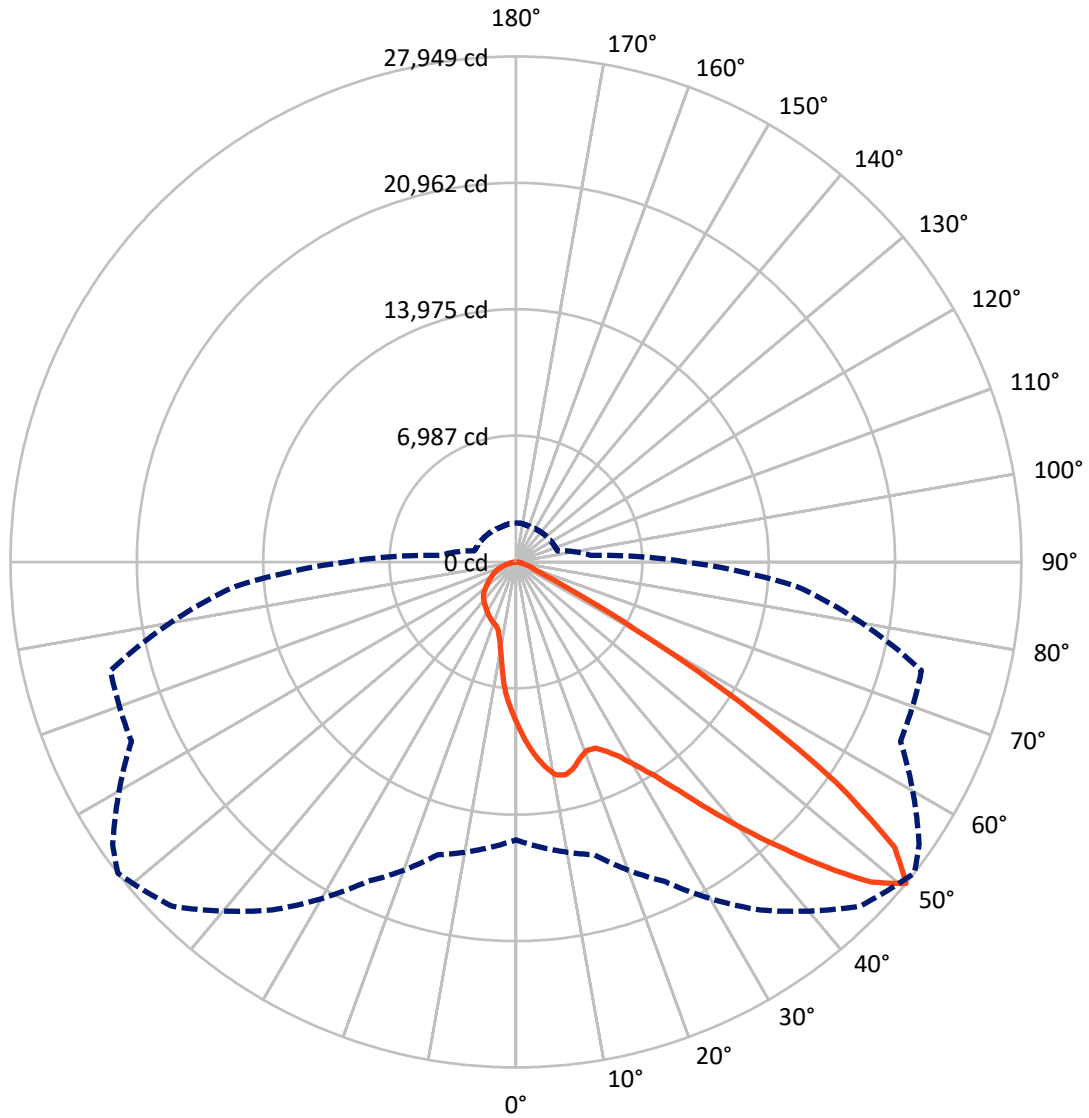
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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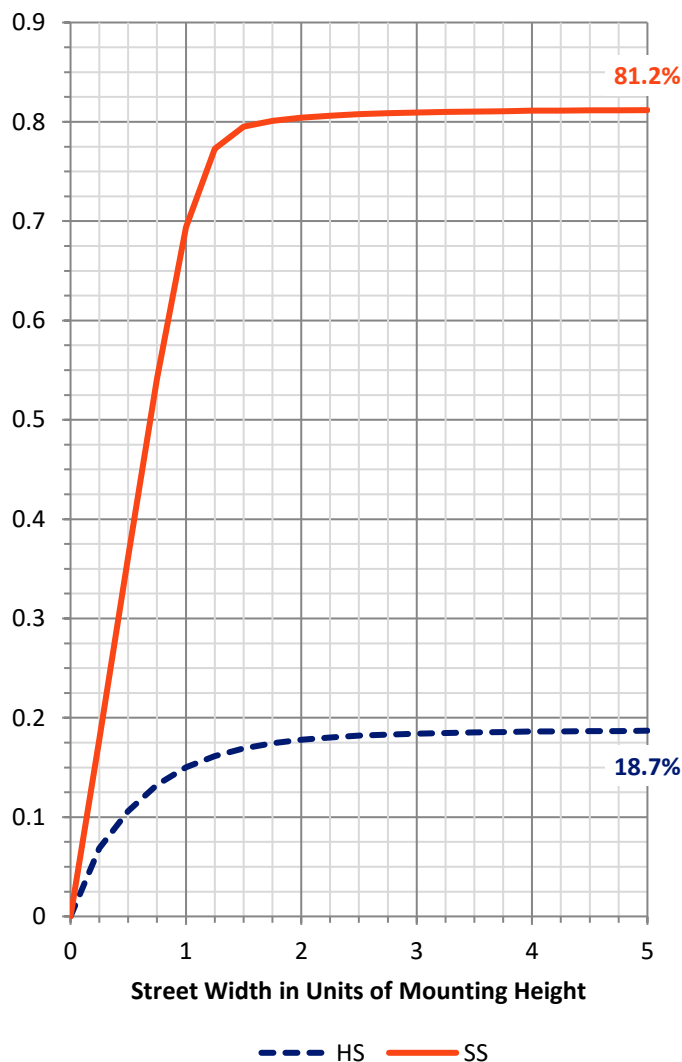
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5971.8	0.0	5971.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	25797.2	0.0	25797.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	31769.0	0.0	31769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	825.4	2.6
10°-20°	2212.3	7.0
20°-30°	3726.5	11.7
30°-40°	6253.3	19.7
40°-50°	9566.0	30.1
50°-60°	6974.4	22.0
60°-70°	1552.2	4.9
70°-80°	559.8	1.8
80°-90°	99.1	0.3
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°	31769.0	100.0
0°-180°	31769.0	100.0

Coefficient of Utilization



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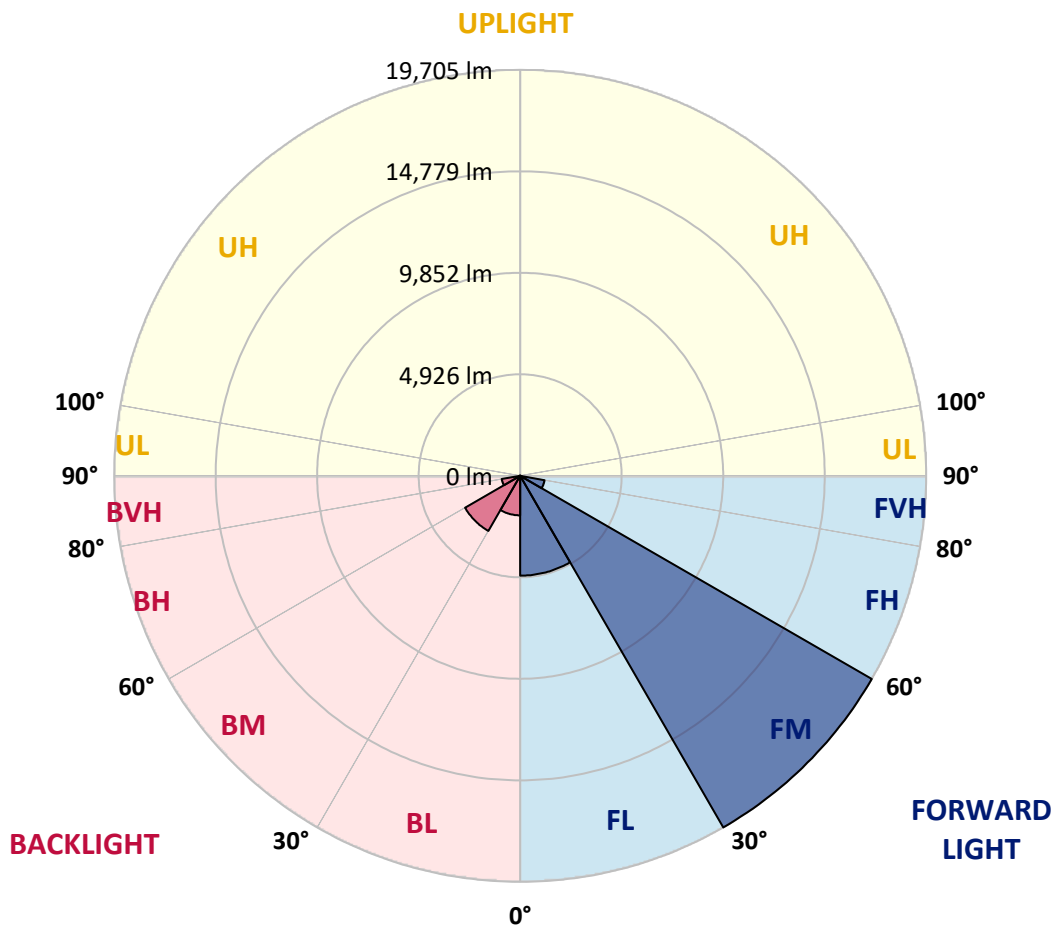
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4845.9	15.3			
FM (30°-60°)	19704.7	62.0			
FH (60°-80°)	1202.2	3.8			G1/1800
FVH (80°-90°)	44.4	0.1			G1/100
BL (0°-30°)	1918.3	6.0	B3/2500		
BM (30°-60°)	3089.0	9.7	B3/5000		
BH (60°-80°)	909.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	54.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8955.2	8955.2	8955.2	8955.2	8955.2	8955.2	8955.2	8955.2	8955.2	8955.2	8955.2
2.5°	10544.0	10341.1	10364.1	10218.6	10061.6	10015.7	9854.9	9701.7	9586.9	9341.8	9116.0
5°	11524.2	11462.9	11371.0	11256.2	11137.5	10846.5	10681.9	10490.4	10069.3	9690.3	9315.0
7.5°	11665.8	11654.3	11704.1	11704.1	11746.2	11635.2	11401.6	11267.6	10819.7	10203.3	9506.5
10°	10670.4	10704.8	10946.0	11260.0	11696.5	11998.9	11960.6	11926.2	11436.1	10593.8	9732.4
12.5°	9877.9	9801.3	9942.9	10210.9	10865.6	11596.9	12090.8	12094.6	11968.3	11217.9	9897.0
15°	9429.9	9483.5	9521.8	9648.1	10142.0	10988.2	11857.3	12113.8	12668.9	11658.2	10157.3
17.5°	9717.1	9537.1	9529.4	9560.1	9812.8	10448.3	11424.6	11864.9	13051.8	12224.8	10478.9
20°	10092.3	10088.4	9981.2	9942.9	9939.1	10505.7	11141.3	11738.6	13254.7	12959.9	10804.4
22.5°	10750.8	10750.8	10574.7	10490.4	10310.5	10773.8	11179.6	11585.4	13591.6	13465.3	10961.4
25°	11853.4	11673.5	11371.0	11164.3	11060.9	11225.5	11585.4	11949.1	13886.4	14001.3	11286.8
27.5°	12871.8	12588.5	12439.2	12083.1	11945.3	11849.6	12178.9	12546.4	14231.0	14835.9	11462.9
30°	14028.1	13978.3	13710.3	13250.9	12910.1	12734.0	13036.5	13400.2	14862.7	15689.7	11868.7
32.5°	16095.5	15643.8	15280.0	14717.2	14162.1	13786.9	14085.5	14326.7	15911.8	16581.8	12312.9
35°	18327.6	18182.1	17554.2	16539.7	15689.7	15352.8	15528.9	15708.8	17133.1	17944.8	13059.4
37.5°	20521.4	20322.3	19805.5	18951.7	17918.0	17232.6	17359.0	17569.6	18503.7	19782.5	13970.7
40°	22098.8	21853.8	21593.4	21467.1	20441.0	19503.0	19430.3	19483.9	20356.8	21505.4	14981.4
42.5°	22213.7	22516.1	22596.5	23105.8	22864.5	22095.0	21647.0	21658.5	22125.6	23209.1	16003.7
45°	21972.5	21693.0	22286.4	23676.2	24472.6	24832.5	24078.2	23982.5	23220.6	24196.9	16512.9
47.5°	19441.8	19518.3	20521.4	22719.1	25020.1	26628.1	26452.0	26134.2	23806.4	24162.5	16432.5
50°	15368.1	15831.4	16761.7	19499.2	23488.6	26911.4	27949.0	27213.9	23458.0	23213.0	15613.1
52.5°	10233.9	10425.3	11037.9	14571.7	18886.6	24055.3	26226.1	26394.5	23136.4	21968.7	14575.6
55°	4556.1	4540.7	5402.2	7611.3	11849.6	18304.7	21428.8	22454.9	21899.7	20701.4	13564.8
57.5°	1929.6	1994.7	2346.9	3288.8	5827.2	11045.6	14518.1	15417.9	16842.1	16999.1	10406.2
60°	1305.6	1313.2	1408.9	1646.3	2438.8	5187.8	7615.1	8694.8	9713.2	9644.3	5520.9
62.5°	1026.1	1052.9	1125.6	1221.3	1447.2	2354.6	3407.5	4008.6	4073.7	3426.6	2094.3
65°	876.8	880.6	953.3	1033.7	1133.3	1370.6	1642.5	1673.1	1692.3	1631.0	1539.1
67.5°	723.6	731.3	788.7	880.6	972.5	1049.0	1125.6	1163.9	1252.0	1424.2	1401.3
70°	574.3	585.8	635.6	712.1	796.4	842.3	938.0	972.5	1052.9	1186.9	1240.5
72.5°	436.5	440.3	482.4	536.0	612.6	658.5	738.9	777.2	830.8	945.7	995.4
75°	313.9	325.4	356.1	382.9	394.3	425.0	501.5	543.7	620.2	670.0	673.8
77.5°	164.6	172.3	179.9	179.9	218.2	275.7	325.4	348.4	402.0	440.3	421.1
80°	65.1	68.9	88.1	118.7	153.1	199.1	233.5	245.0	291.0	313.9	325.4
82.5°	38.3	42.1	57.4	84.2	111.0	141.7	168.5	179.9	210.6	237.4	245.0
85°	19.1	23.0	34.5	53.6	72.7	88.1	84.2	80.4	80.4	76.6	80.4
87.5°	7.7	7.7	11.5	11.5	11.5	15.3	19.1	19.1	19.1	23.0	23.0
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°	8955.2	8955.2	8955.2	8955.2	8955.2	8955.2	8955.2	8955.2	8955.2	8955.2	8955.2
2.5°	8966.6	8813.5	8671.8	8411.5	8128.2	8047.8	7718.5	7599.8	7515.6	7416.0	7385.4
5°	9012.6	8809.7	8354.1	7829.5	7412.2	6876.2	6524.0	6144.9	5869.3	5800.4	5781.2
7.5°	9108.3	8759.9	7975.0	7182.5	6328.7	5601.3	5046.1	4747.5	4483.3	4468.0	4441.2
10°	9215.5	8610.6	7561.5	6317.2	5226.1	4552.2	4219.1	4089.0	4023.9	4008.6	4000.9
12.5°	9303.6	8579.9	7098.3	5474.9	4445.0	4039.2	3939.7	3928.2	3955.0	3962.6	3977.9
15°	9341.8	8457.4	6539.3	4720.7	3958.8	3809.5	3851.6	3897.5	3916.7	3966.5	3928.2
17.5°	9414.6	8300.5	5850.1	4123.4	3687.0	3713.8	3786.5	3840.1	3870.7	3905.2	3855.4
20°	9452.9	8158.8	5203.1	3767.4	3591.3	3641.0	3740.6	3782.7	3821.0	3836.3	3778.9
22.5°	9418.4	7867.8	4632.6	3480.2	3499.4	3564.5	3652.5	3698.5	3675.5	3614.2	3579.8
25°	9326.5	7458.2	4039.2	3296.4	3369.2	3484.0	3553.0	3518.5	3476.4	3441.9	3430.4
27.5°	9322.7	6956.6	3610.4	3128.0	3258.2	3415.1	3392.2	3361.5	3380.7	3353.9	3323.2
30°	9341.8	6470.4	3258.2	3032.3	3177.8	3254.3	3281.1	3250.5	3273.5	3223.7	3239.0
32.5°	9242.3	5995.6	3028.4	2921.2	3082.0	3078.2	3166.3	3189.2	3135.6	3032.3	3047.6
35°	9284.4	5612.8	2833.2	2871.5	2974.8	2974.8	3043.8	3017.0	2875.3	2814.0	2829.4
37.5°	9575.4	5237.6	2737.5	2802.6	2871.5	2902.1	2879.1	2764.3	2729.8	2729.8	2737.5
40°	9851.1	4916.0	2680.0	2787.2	2775.8	2794.9	2626.4	2637.9	2637.9	2641.8	2622.6
42.5°	10096.1	4697.7	2634.1	2695.4	2714.5	2615.0	2511.6	2500.1	2526.9	2523.1	2507.7
45°	10184.1	4517.8	2569.0	2592.0	2607.3	2442.7	2392.9	2369.9	2400.5	2412.0	2427.3
47.5°	9847.2	4368.5	2496.3	2450.3	2419.7	2312.5	2247.4	2205.3	2243.6	2308.7	2324.0
50°	9414.6	4173.2	2381.4	2293.3	2228.3	2182.3	2136.4	2094.3	2121.1	2167.0	2155.5
52.5°	8775.2	3866.9	2235.9	2144.0	2033.0	2044.5	2002.4	1979.4	1994.7	1994.7	1983.2
55°	7864.0	3177.8	1990.9	1925.8	1833.9	1864.5	1872.2	1841.6	1810.9	1837.7	1814.8
57.5°	5367.7	2243.6	1776.5	1776.5	1684.6	1726.7	1722.9	1650.1	1577.4	1585.1	1569.7
60°	3105.0	1788.0	1638.7	1623.3	1527.6	1562.1	1569.7	1520.0	1408.9	1416.6	1401.3
62.5°	1765.0	1527.6	1431.9	1408.9	1389.8	1420.4	1420.4	1355.3	1259.6	1267.3	1252.0
65°	1500.8	1416.6	1278.8	1274.9	1267.3	1274.9	1244.3	1175.4	1091.2	1056.7	1060.5
67.5°	1363.0	1309.4	1175.4	1140.9	1118.0	1114.1	1056.7	991.6	953.3	922.7	918.9
70°	1194.5	1152.4	1052.9	1006.9	984.0	930.4	872.9	830.8	777.2	761.9	777.2
72.5°	945.7	941.8	903.6	853.8	804.0	761.9	712.1	654.7	604.9	593.4	566.6
75°	654.7	662.4	670.0	662.4	620.2	566.6	509.2	463.3	402.0	367.5	359.9
77.5°	428.8	440.3	451.8	436.5	409.7	359.9	321.6	264.2	218.2	191.4	187.6
80°	313.9	329.3	336.9	325.4	294.8	256.5	214.4	168.5	134.0	111.0	111.0
82.5°	241.2	256.5	264.2	245.0	214.4	183.8	153.1	118.7	91.9	72.7	68.9
85°	84.2	80.4	95.7	99.5	118.7	111.0	91.9	68.9	53.6	38.3	34.5
87.5°	23.0	23.0	26.8	26.8	23.0	19.1	19.1	19.1	15.3	11.5	11.5
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)