

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: P532731

Luminaire Tested: **GALN-SA8A-760-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532731
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-SA8A-760-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 21596 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

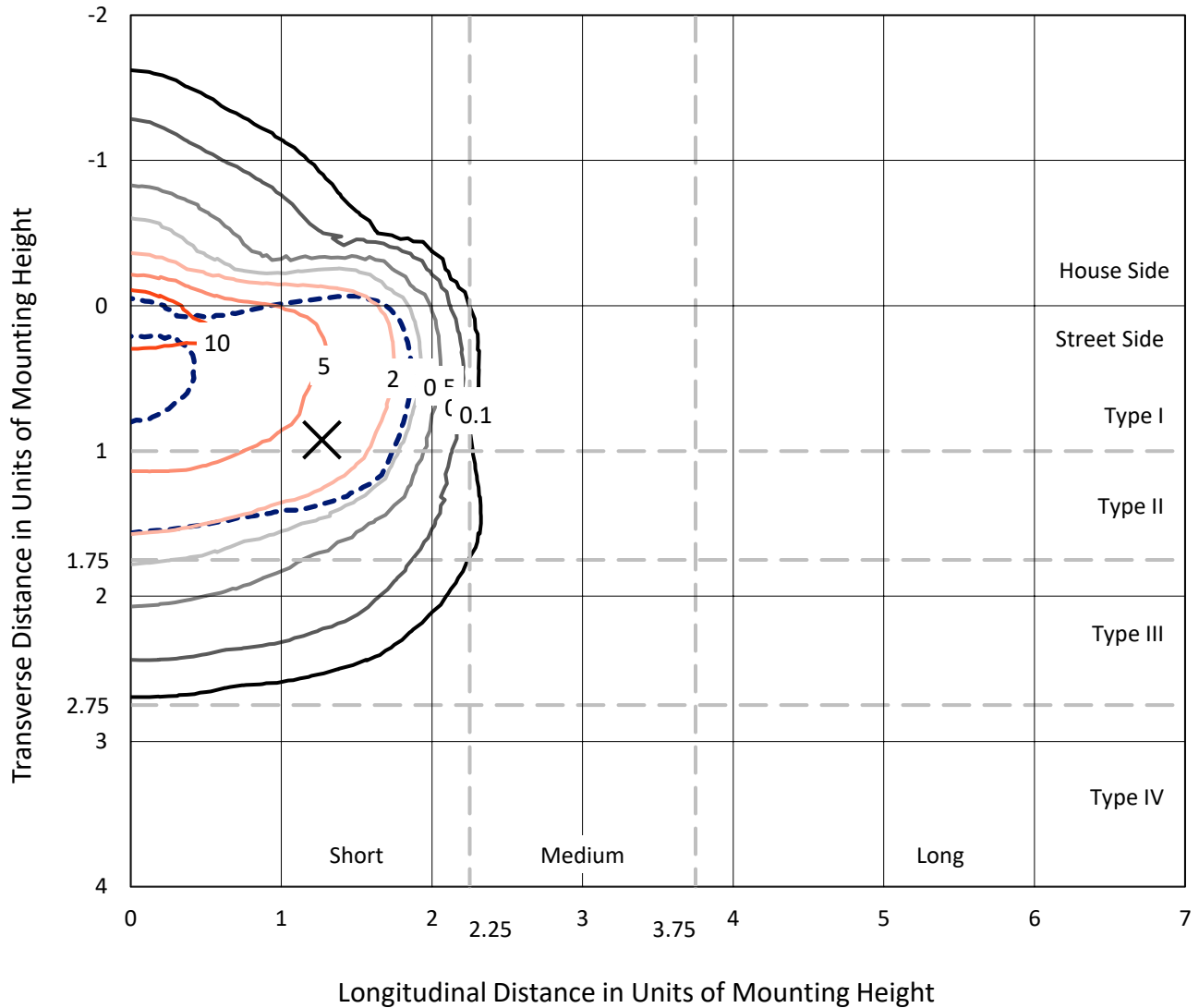
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

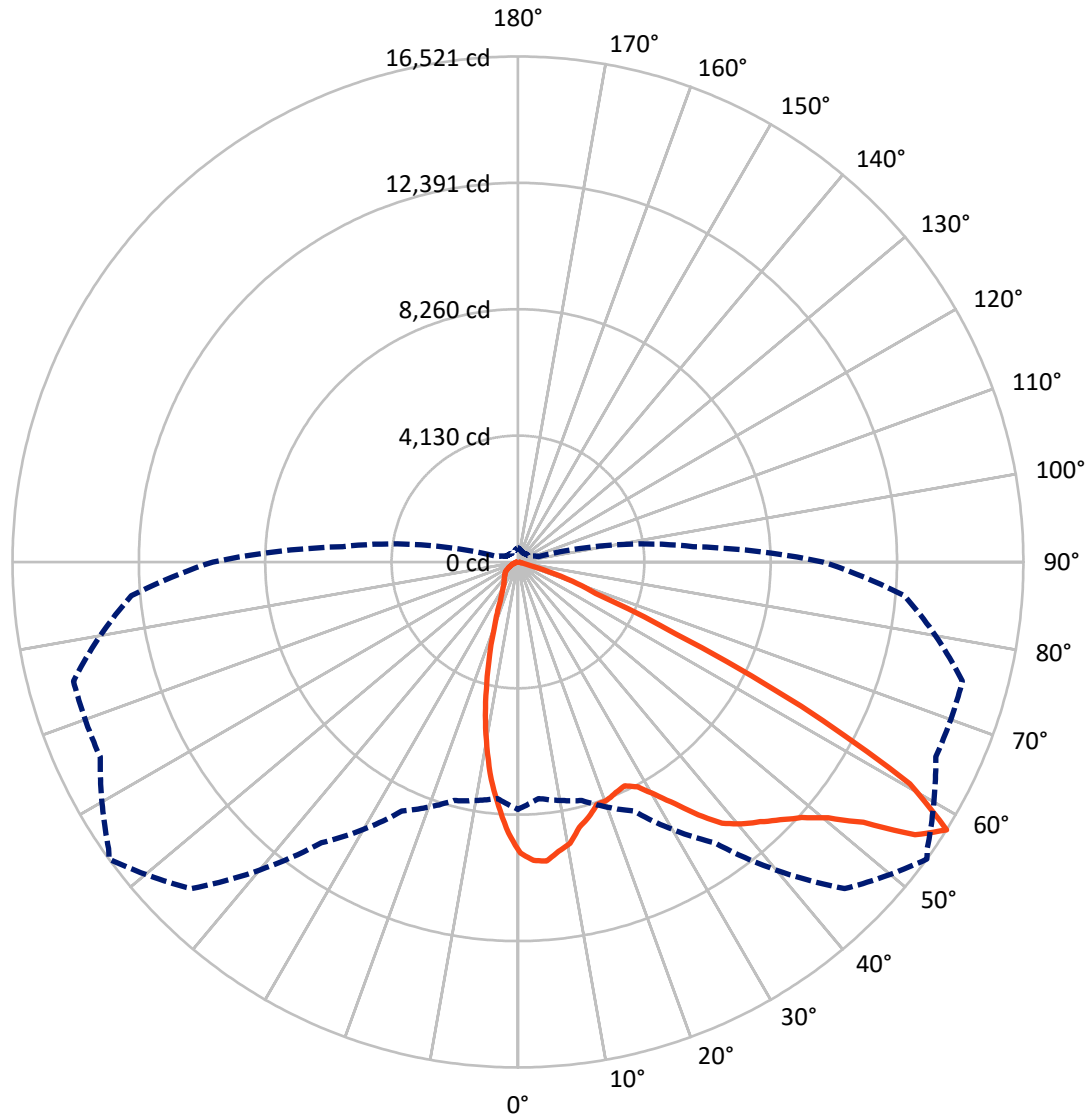
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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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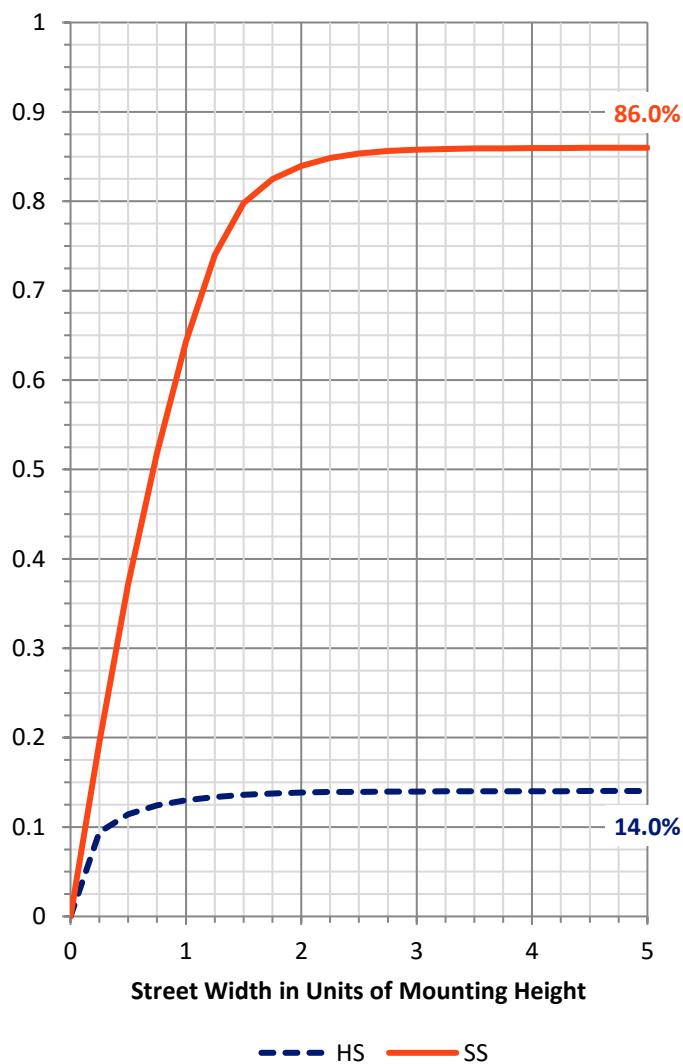
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3051.9	0.0	3051.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	18544.1	0.0	18544.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	21596.0	0.0	21596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.1	3.7
10°-20°	1699.6	7.9
20°-30°	2252.4	10.4
30°-40°	3273.3	15.2
40°-50°	4853.9	22.5
50°-60°	6069.6	28.1
60°-70°	2394.2	11.1
70°-80°	238.4	1.1
80°-90°	18.5	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°	21596.0	100.0
0°-180°	21596.0	100.0

Coefficient of Utilization



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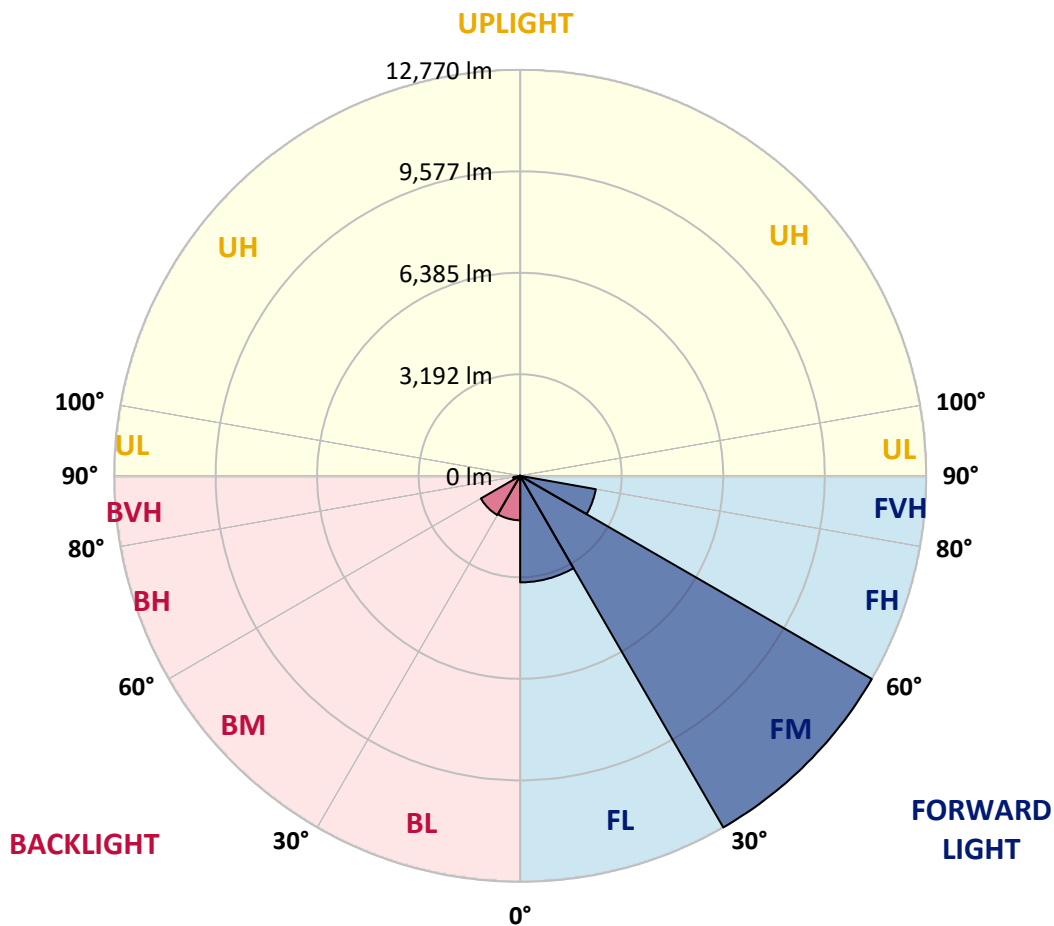
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3352.3	15.5			
FM (30°-60°)	12769.7	59.1			
FH (60°-80°)	2413.7	11.2			G2/5000
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	1395.8	6.5	B3/2500		
BM (30°-60°)	1427.1	6.6	B2/2500		
BH (60°-80°)	218.8	1.0	B1/500		G1/500
BVH (80°-90°)	10.1	0.0			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°	54°	55°	65°	75°	85°
0°	9513.3	9513.3	9513.3	9513.3	9513.3	9513.3	9513.3	9513.3	9513.3	9513.3	9513.3
2.5°	10067.5	9963.1	9971.1	9935.0	9886.8	9922.9	9766.3	9802.5	9798.4	9585.6	9445.1
5°	9814.5	9927.0	9810.5	9906.9	9814.5	9914.9	9818.5	9746.2	9629.8	9473.2	9212.1
7.5°	9384.8	9276.4	9308.5	9429.0	9449.1	9674.0	9553.5	9645.8	9597.7	9288.4	8931.0
10°	8521.4	8497.3	8658.0	8818.6	9015.4	9256.3	9348.7	9296.5	9260.3	9143.9	8666.0
12.5°	7858.8	7927.1	7923.1	8188.1	8521.4	8658.0	8898.9	8890.9	9091.7	8874.8	8417.0
15°	7228.4	7264.5	7433.2	7597.8	7967.3	8356.8	8654.0	8694.1	8935.1	8782.5	8224.3
17.5°	6842.9	6790.6	6923.2	7119.9	7497.4	8007.4	8336.7	8433.1	8762.4	8730.3	8003.4
20°	6461.4	6461.4	6569.8	6802.7	7148.0	7722.3	8308.6	8280.5	8762.4	8670.0	7766.5
22.5°	6332.8	6397.1	6425.2	6601.9	7011.5	7505.5	8188.1	8240.3	8830.7	8641.9	7662.1
25°	6509.5	6425.2	6433.2	6573.8	6959.3	7401.0	8099.8	8216.2	8955.1	8782.5	7577.7
27.5°	6537.7	6622.0	6646.1	6742.5	6999.5	7433.2	8320.6	8557.6	9264.4	9111.8	7601.8
30°	6782.6	6866.9	6862.9	7027.6	7204.3	7694.2	8814.6	8862.8	9902.9	9525.4	7750.4
32.5°	7079.8	7168.1	7196.2	7389.0	7529.5	8172.1	9417.0	9541.4	10517.3	10175.9	8139.9
35°	7449.2	7417.1	7545.6	7738.4	8039.5	8870.8	10151.8	10360.7	11179.9	11019.2	8541.5
37.5°	7911.0	7870.9	7995.4	8308.6	8718.2	9698.1	10830.5	10967.0	11661.8	11802.3	9284.4
40°	8236.3	8252.4	8629.9	9051.5	9485.2	10485.1	11260.2	11392.7	11999.1	12533.2	9846.6
42.5°	8778.4	8878.8	9332.6	9846.6	10300.4	11075.5	11609.6	11738.1	12155.7	13119.5	10605.6
45°	9565.5	9521.4	10023.3	10597.6	11099.6	11689.9	12023.2	11979.0	12248.1	13701.8	11083.5
47.5°	10577.5	10585.5	10918.8	11408.8	11930.8	12224.0	12485.0	12328.4	12440.8	14316.2	11722.0
50°	11268.2	11328.5	11597.5	12099.5	12360.5	12810.3	13143.6	13047.2	13011.1	14685.6	12123.6
52.5°	11444.9	11625.6	11770.2	12396.6	13007.0	13717.8	14143.5	14348.3	13705.8	14810.1	12633.6
55°	10111.7	10272.3	10782.3	11641.7	13252.0	15155.5	15741.8	15745.8	14613.3	15364.3	12991.0
57.5°	8083.7	7758.4	8071.7	8983.2	11204.0	15095.2	16520.8	16332.1	15067.1	15039.0	12681.8
60°	5589.9	5509.6	5529.7	5891.1	7754.4	12007.1	14721.8	14966.7	13874.4	13035.1	10039.4
62.5°	4429.4	4361.1	4272.8	4232.6	4814.9	7481.4	10384.7	10730.1	9702.1	8453.2	5951.4
65°	3469.6	3429.5	3441.5	3602.1	3598.1	4244.7	5678.3	5537.7	4433.4	3276.9	1871.3
67.5°	2341.2	2401.4	2449.6	2935.5	3184.5	2955.6	2742.8	2662.4	1441.7	606.4	413.6
70°	1317.2	1325.2	1377.4	1835.2	2417.5	2293.0	1891.4	1891.4	718.8	220.9	236.9
72.5°	718.8	694.7	646.5	791.1	1076.2	1092.3	843.3	734.9	212.8	144.6	132.5
75°	349.4	345.4	297.2	245.0	232.9	192.8	148.6	136.5	96.4	92.4	80.3
77.5°	72.3	68.3	36.1	36.1	40.2	44.2	56.2	56.2	68.3	68.3	56.2
80°	0.0	0.0	4.0	16.1	28.1	40.2	48.2	48.2	56.2	56.2	44.2
82.5°	0.0	0.0	4.0	12.0	24.1	36.1	44.2	48.2	56.2	60.2	48.2
85°	0.0	0.0	0.0	8.0	20.1	28.1	24.1	24.1	20.1	16.1	8.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9513.3	9513.3	9513.3	9513.3	9513.3	9513.3	9513.3	9513.3	9513.3	9513.3	9513.3
2.5°	9372.8	9364.7	9180.0	9075.6	8886.9	8722.2	8589.7	8493.3	8493.3	8433.1	8376.9
5°	9107.7	9039.5	8645.9	8392.9	8035.5	7770.5	7589.8	7449.2	7228.4	7288.6	7051.7
7.5°	8778.4	8605.8	8083.7	7698.2	7204.3	6826.8	6441.3	6099.9	5770.6	5622.1	5702.4
10°	8425.1	8123.9	7421.1	6810.7	6196.3	5505.6	5055.8	4509.7	4172.4	4152.3	4063.9
12.5°	8051.6	7710.3	6854.9	6011.6	5204.4	4373.2	3686.5	3176.5	2947.6	2694.6	2742.8
15°	7770.5	7264.5	6224.4	5208.4	4136.2	3296.9	2606.2	2212.7	1995.8	1935.6	1915.5
17.5°	7465.3	6923.2	5581.9	4353.1	3244.7	2373.3	1875.4	1686.6	1602.3	1602.3	1590.2
20°	7148.0	6537.7	4943.4	3558.0	2433.5	1770.9	1501.9	1441.7	1437.6	1433.6	1433.6
22.5°	6939.2	6095.9	4365.1	2827.1	1835.2	1417.6	1305.1	1281.0	1297.1	1345.3	1345.3
25°	6718.4	5670.2	3726.6	2180.6	1421.6	1216.8	1152.5	1168.6	1208.7	1252.9	1236.9
27.5°	6493.5	5393.2	3124.3	1710.7	1164.6	1064.2	1040.1	1076.2	1120.4	1160.6	1148.5
30°	6441.3	5096.0	2554.0	1297.1	999.9	927.6	943.7	975.8	1020.0	1036.1	1052.1
32.5°	6521.6	4863.1	2092.2	1064.2	871.4	851.3	851.3	867.4	895.5	931.7	919.6
35°	6750.5	4730.6	1654.5	923.6	799.1	779.1	775.0	791.1	807.2	819.2	807.2
37.5°	7099.9	4626.2	1353.3	819.2	750.9	718.8	710.8	706.8	722.8	726.9	734.9
40°	7545.6	4682.4	1148.5	755.0	702.8	666.6	642.5	642.5	642.5	654.6	658.6
42.5°	8027.5	4758.7	991.9	718.8	658.6	614.4	590.3	582.3	590.3	606.4	602.4
45°	8533.5	4907.3	891.5	662.6	618.4	562.2	530.1	522.0	542.1	574.3	570.2
47.5°	9007.3	5120.1	815.2	626.5	578.3	526.1	485.9	477.9	514.0	558.2	562.2
50°	9481.2	5489.5	787.1	598.3	550.2	489.9	453.8	445.7	485.9	542.1	554.2
52.5°	10027.3	5887.1	767.0	562.2	518.0	461.8	421.7	413.6	457.8	530.1	534.1
55°	10384.7	6224.4	750.9	498.0	457.8	417.6	385.5	381.5	429.7	493.9	510.0
57.5°	9967.1	5754.6	694.7	433.7	389.5	369.4	341.3	341.3	381.5	441.7	453.8
60°	7557.7	3786.9	493.9	349.4	329.3	317.2	305.2	305.2	337.3	381.5	385.5
62.5°	4425.4	2040.0	317.2	281.1	281.1	269.1	249.0	249.0	281.1	305.2	309.2
65°	1313.2	654.6	257.0	240.9	236.9	216.9	196.8	192.8	216.9	228.9	224.9
67.5°	377.5	301.2	212.8	200.8	196.8	164.6	152.6	148.6	152.6	144.6	140.6
70°	224.9	204.8	164.6	168.7	148.6	120.5	108.4	104.4	96.4	84.3	76.3
72.5°	124.5	124.5	120.5	128.5	104.4	80.3	68.3	56.2	44.2	36.1	32.1
75°	76.3	80.3	84.3	88.3	68.3	52.2	44.2	28.1	16.1	8.0	8.0
77.5°	52.2	56.2	60.2	64.3	56.2	48.2	36.1	20.1	4.0	0.0	0.0
80°	40.2	44.2	52.2	56.2	60.2	64.3	48.2	20.1	4.0	0.0	0.0
82.5°	44.2	48.2	60.2	56.2	56.2	56.2	44.2	20.1	4.0	0.0	0.0
85°	8.0	12.0	20.1	20.1	28.1	36.1	28.1	8.0	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)