

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: P534393

Luminaire Tested: **GALN-SA9D-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30092 lumens
Efficiency: N/A
Efficacy: 54.5 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

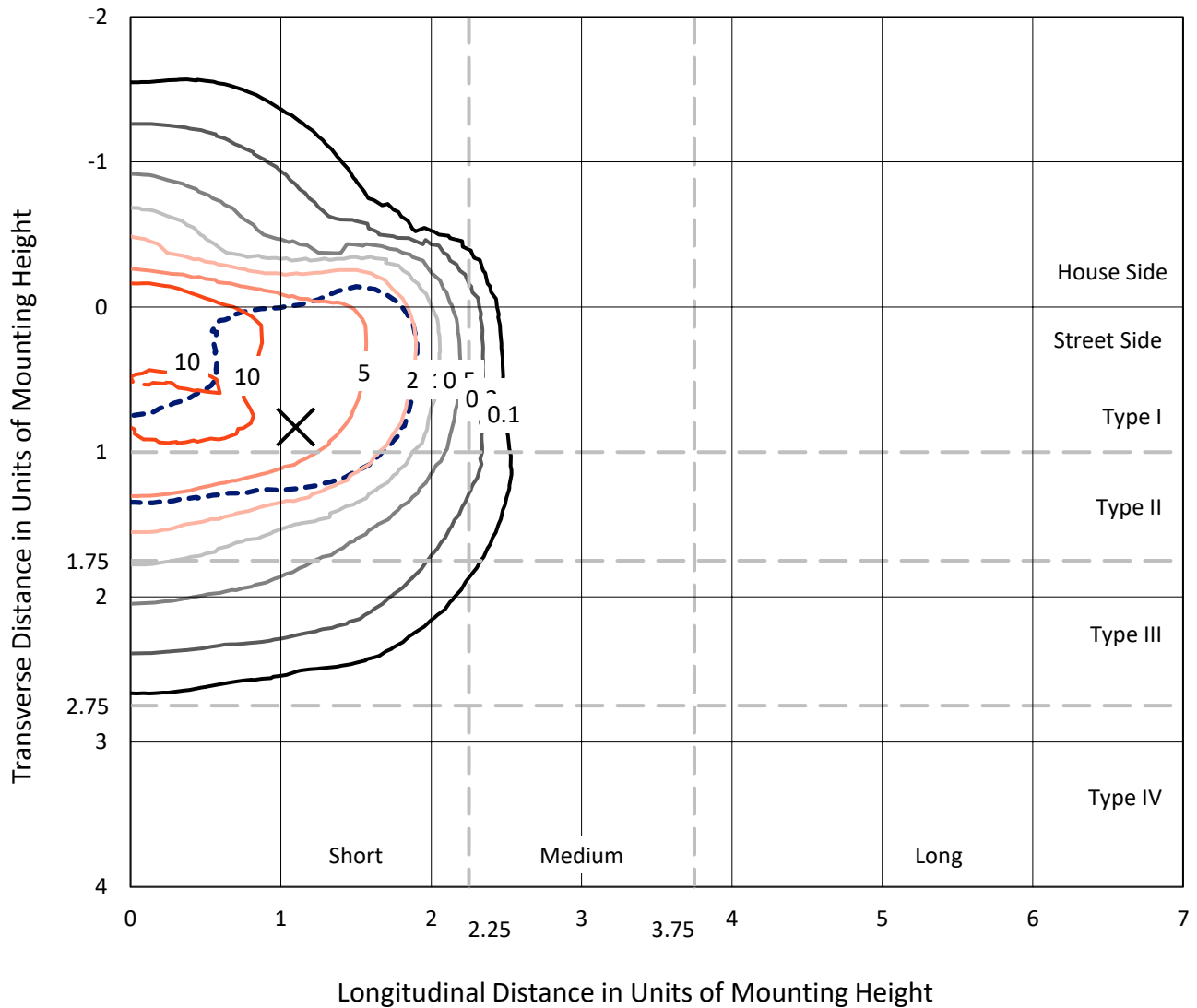
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

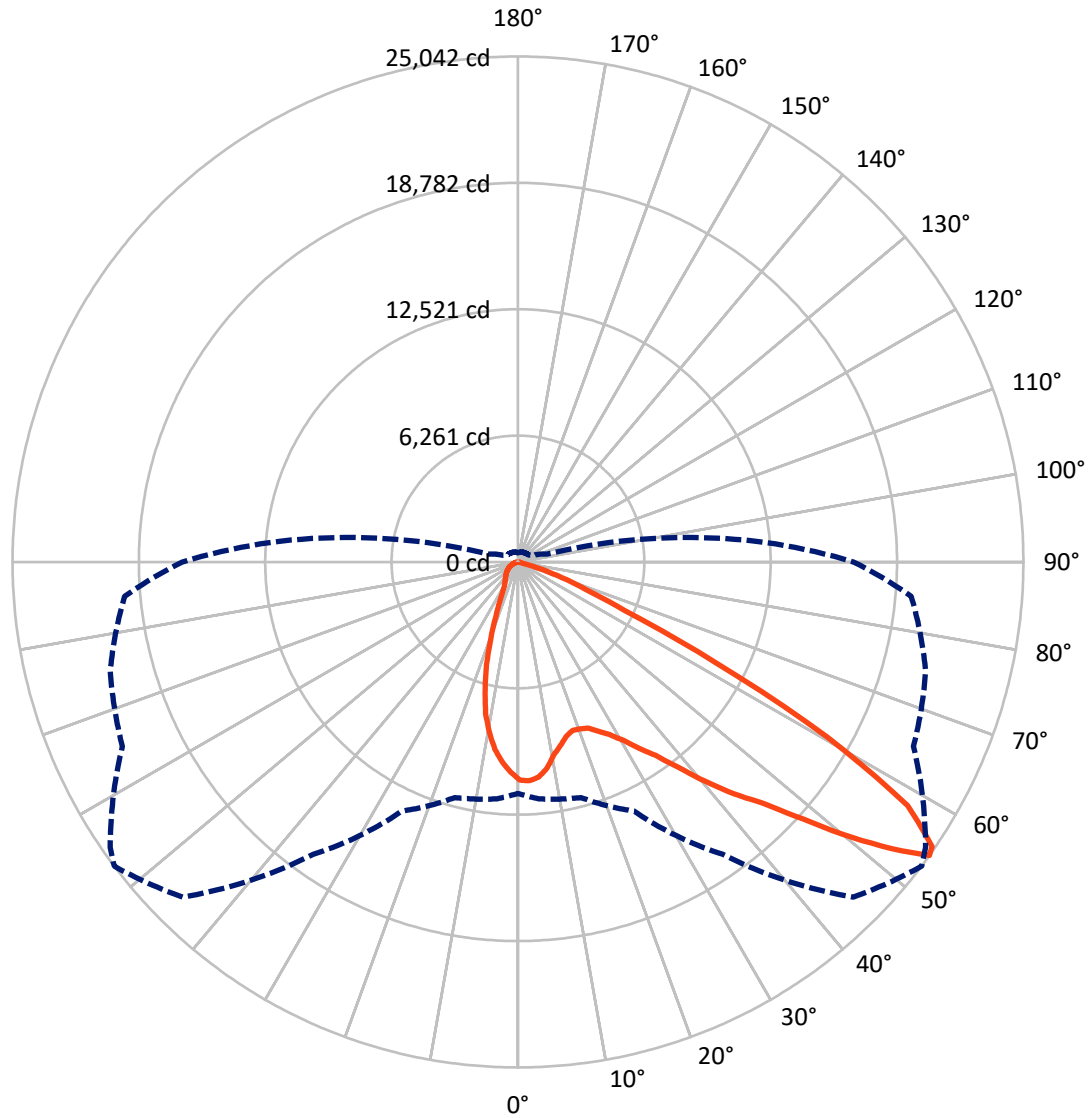
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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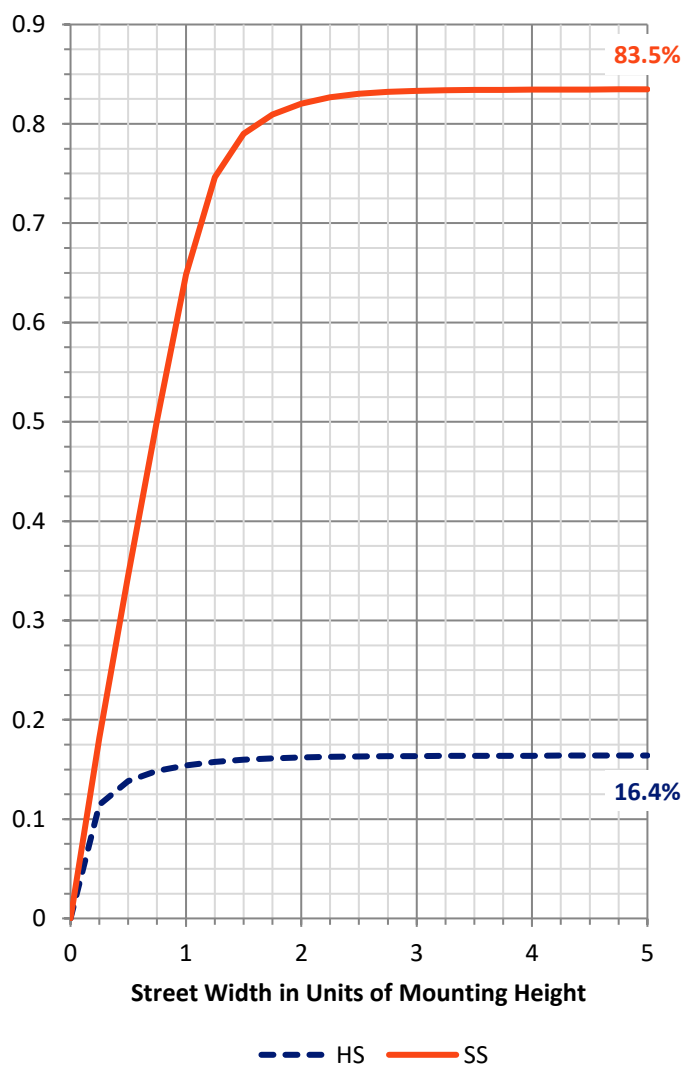
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4978.8	0.0	4978.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	25113.2	0.0	25113.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	30092.0	0.0	30092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.3	3.1
10°-20°	2126.1	7.1
20°-30°	3021.7	10.0
30°-40°	4663.2	15.5
40°-50°	7311.5	24.3
50°-60°	8493.3	28.2
60°-70°	3209.3	10.7
70°-80°	305.2	1.0
80°-90°	34.3	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°	30092.0	100.0
0°-180°	30092.0	100.0

Coefficient of Utilization

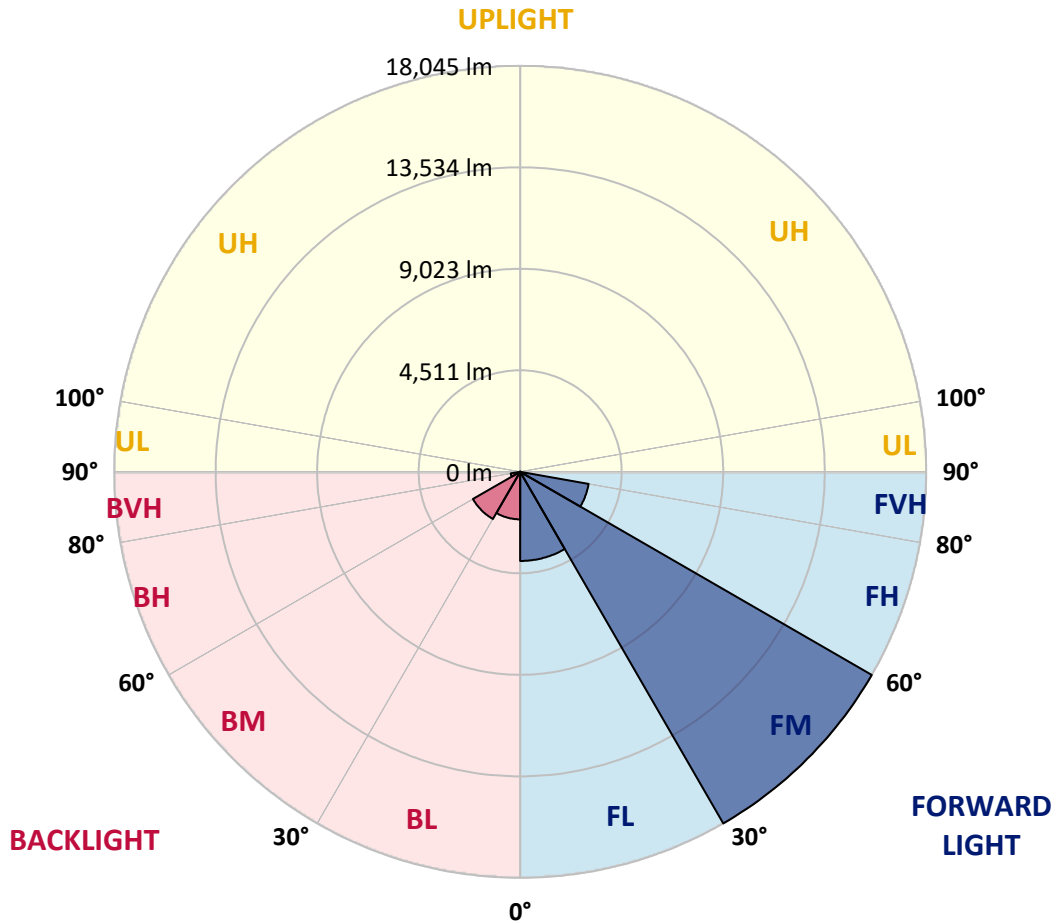


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3962.3	13.2			
FM (30°-60°)	18045.2	60.0			
FH (60°-80°)	3087.9	10.3			G2/5000
FVH (80°-90°)	17.7	0.1			G1/100
BL (0°-30°)	2112.8	7.0	B3/2500		
BM (30°-60°)	2422.8	8.1	B2/2500		
BH (60°-80°)	426.6	1.4	B1/500		G1/500
BVH (80°-90°)	16.6	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10808.5	10808.5	10808.5	10808.5	10808.5	10808.5	10808.5	10808.5	10808.5	10808.5	10808.5
2.5°	10752.5	10657.2	10752.5	10763.7	10831.0	10892.6	10853.4	10943.1	10892.6	10836.6	10819.8
5°	9883.5	10012.5	10018.1	10219.9	10175.1	10545.1	10707.6	10662.8	10937.5	10920.7	10881.4
7.5°	9104.3	9053.8	9121.1	9356.6	9653.7	10079.7	10315.2	10309.6	10702.0	10982.3	10954.3
10°	8381.1	8375.5	8515.6	8700.6	8952.9	9401.4	9726.6	9889.1	10500.2	10926.3	10987.9
12.5°	7893.4	7870.9	8022.3	8173.7	8571.7	8919.3	9334.1	9412.6	10113.4	10730.1	10831.0
15°	7573.8	7624.3	7635.5	7927.0	8179.3	8639.0	8964.1	9126.7	9934.0	10573.1	10959.9
17.5°	7517.8	7585.0	7590.6	7831.7	8100.8	8487.6	8773.5	8992.2	9782.6	10651.6	10965.5
20°	7629.9	7590.6	7624.3	7775.6	8039.1	8409.1	8824.0	8896.9	9732.2	10690.8	11027.2
22.5°	7949.4	7938.2	7854.1	7977.5	8162.5	8549.3	8941.7	9053.8	9877.9	10892.6	11077.6
25°	8302.6	8364.3	8285.8	8269.0	8397.9	8779.1	9300.5	9446.3	10365.7	11257.0	11234.6
27.5°	8964.1	8902.5	8902.5	8824.0	8790.3	8975.3	9687.3	9928.4	10909.4	11727.9	11414.0
30°	9597.6	9664.9	9614.4	9642.5	9418.2	9401.4	10236.7	10533.8	11873.7	12445.5	11795.2
32.5°	10601.1	10511.4	10595.5	10522.6	10225.5	9922.8	10982.3	11290.7	13039.8	13269.6	12367.0
35°	11436.4	11397.2	11756.0	11744.8	11262.6	10965.5	11772.8	12232.5	13852.6	14256.3	13039.8
37.5°	12624.9	12552.0	12961.3	13157.5	12725.8	12282.9	12905.2	13437.8	14609.5	15046.7	13729.3
40°	13847.0	14032.0	14581.4	14906.6	14446.9	13858.3	14289.9	14452.5	15114.0	15562.5	14200.2
42.5°	15394.3	15663.4	16224.0	16504.3	16465.1	15826.0	15697.0	15691.4	15478.4	15416.7	14547.8
45°	16879.9	16779.0	17642.4	18253.4	18746.8	18561.8	17053.7	16885.5	16055.8	15635.4	14637.5
47.5°	17530.2	17496.6	18085.2	19172.8	20854.7	21084.5	19027.1	18376.8	17031.3	16554.8	15125.2
50°	16689.3	16863.1	17446.1	18651.5	21230.3	22985.0	21448.9	20574.3	18169.3	17676.0	16280.1
52.5°	13942.3	14060.1	14615.1	16145.5	19952.1	24106.2	23769.8	23265.3	20260.4	19441.9	18292.7
54°	11464.5	11778.4	12081.1	13617.2	17676.0	23483.9	25042.4	24655.6	21622.7	20910.7	19559.6
55°	9984.4	10169.4	10388.1	11918.5	16100.7	22430.0	24896.6	24930.3	22536.5	21370.4	20411.8
57.5°	7293.5	7422.5	7198.2	7876.6	11055.2	18214.2	22771.9	23680.1	23769.8	22060.0	20933.1
60°	5572.5	5628.5	5376.2	5482.8	6873.1	12501.6	17614.3	18707.5	21443.3	19279.3	17732.1
62.5°	4322.3	4333.5	4327.9	4512.9	4737.1	7355.2	11016.0	11985.8	14783.3	13690.1	12041.9
65°	3184.3	3133.8	3223.5	3784.1	4042.0	4625.0	5802.3	6508.7	8033.5	6783.4	4849.3
67.5°	2063.0	2079.9	2169.6	2814.3	3464.6	3548.7	3571.1	3515.0	3520.6	1939.7	1216.5
70°	1238.9	1267.0	1238.9	1592.1	2477.9	2545.2	2326.5	2270.5	1771.5	459.7	454.1
72.5°	734.4	695.2	622.3	683.9	1031.5	1233.3	1110.0	1104.4	695.2	269.1	269.1
75°	308.3	280.3	229.8	207.4	274.7	263.5	263.5	235.5	185.0	179.4	168.2
77.5°	61.7	61.7	44.8	50.5	67.3	78.5	95.3	95.3	112.1	112.1	106.5
80°	0.0	5.6	16.8	33.6	50.5	72.9	84.1	84.1	95.3	95.3	78.5
82.5°	0.0	5.6	16.8	33.6	44.8	67.3	84.1	84.1	95.3	100.9	84.1
85°	0.0	5.6	16.8	28.0	44.8	56.1	56.1	50.5	39.2	33.6	22.4
87.5°	0.0	0.0	5.6	11.2	5.6	11.2	11.2	11.2	11.2	11.2	11.2
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°	10808.5	10808.5	10808.5	10808.5	10808.5	10808.5	10808.5	10808.5	10808.5	10808.5	10808.5
2.5°	10859.0	10853.4	10718.8	10500.2	10449.7	10264.7	10242.3	10130.2	10191.9	9984.4	9962.0
5°	10769.3	10702.0	10539.4	10399.3	9990.1	9698.5	9468.7	9188.4	9025.8	9053.8	8947.3
7.5°	10898.2	10724.4	10438.5	9950.8	9451.9	8941.7	8667.0	8095.2	7887.8	7579.4	7534.6
10°	10763.7	10634.8	10191.9	9384.6	8695.0	7960.6	7315.9	6682.5	6200.3	5992.9	5948.1
12.5°	10752.5	10528.2	9788.2	8891.3	7893.4	6839.4	5903.2	5112.8	4636.2	4367.1	4305.5
15°	10578.7	10309.6	9334.1	8128.8	6749.7	5437.9	4417.6	3655.2	3290.8	3133.8	3178.7
17.5°	10595.5	10191.9	8880.0	7321.6	5622.9	3991.5	3016.1	2623.6	2528.3	2567.6	2567.6
20°	10578.7	9928.4	8330.6	6390.9	4305.5	2769.4	2214.4	2074.3	2135.9	2259.3	2231.2
22.5°	10489.0	9805.0	7826.1	5409.9	3167.4	2051.8	1777.1	1782.7	1878.0	2029.4	2063.0
25°	10556.3	9530.4	7187.0	4417.6	2309.7	1637.0	1541.7	1580.9	1681.8	1793.9	1816.4
27.5°	10505.8	9334.1	6519.9	3430.9	1687.4	1407.1	1401.5	1446.4	1491.2	1575.3	1575.3
30°	10561.9	9154.7	5864.0	2550.8	1390.3	1289.4	1267.0	1300.6	1345.5	1362.3	1356.7
32.5°	10769.3	9020.2	5107.1	1906.1	1227.7	1177.3	1177.3	1177.3	1171.7	1194.1	1199.7
35°	11223.4	9042.6	4440.0	1474.4	1121.2	1082.0	1065.2	1042.7	1031.5	1042.7	1048.3
37.5°	11716.7	9031.4	3750.5	1255.8	1042.7	1009.1	969.9	936.2	930.6	941.8	925.0
40°	11935.4	9137.9	3111.4	1126.8	969.9	930.6	868.9	840.9	846.5	857.7	846.5
42.5°	12232.5	9171.6	2696.5	1025.9	902.6	840.9	801.7	768.0	762.4	779.2	773.6
45°	12226.9	8981.0	2259.3	969.9	840.9	773.6	723.2	695.2	695.2	706.4	712.0
47.5°	12585.7	8952.9	1939.7	919.4	796.1	728.8	667.1	644.7	639.1	639.1	627.9
50°	13421.0	9345.3	1693.0	863.3	740.0	678.3	627.9	599.9	577.4	566.2	560.6
52.5°	15052.3	10567.5	1502.4	796.1	678.3	627.9	583.0	560.6	532.6	504.5	498.9
54°	16633.3	11828.8	1491.2	740.0	627.9	594.2	555.0	543.8	510.2	470.9	459.7
55°	17345.2	12563.2	1530.5	695.2	594.2	571.8	538.2	527.0	493.3	448.5	442.9
57.5°	17933.9	12849.2	1508.0	577.4	538.2	532.6	504.5	487.7	448.5	386.8	375.6
60°	14435.7	9715.4	1082.0	510.2	493.3	482.1	459.7	448.5	398.0	330.8	325.2
62.5°	9121.1	5589.3	689.5	448.5	431.7	414.9	386.8	375.6	330.8	263.5	246.7
65°	3885.0	2315.3	465.3	398.0	370.0	342.0	319.5	302.7	263.5	196.2	190.6
67.5°	1009.1	824.1	386.8	347.6	308.3	269.1	252.3	224.2	179.4	134.5	128.9
70°	454.1	414.9	325.2	291.5	246.7	207.4	185.0	157.0	117.7	89.7	84.1
72.5°	269.1	263.5	246.7	218.6	185.0	157.0	134.5	106.5	78.5	50.5	50.5
75°	168.2	162.6	168.2	151.4	128.9	117.7	100.9	72.9	44.8	22.4	22.4
77.5°	100.9	100.9	100.9	95.3	89.7	89.7	72.9	44.8	22.4	5.6	5.6
80°	78.5	78.5	84.1	78.5	78.5	78.5	61.7	33.6	11.2	0.0	0.0
82.5°	78.5	84.1	95.3	89.7	78.5	67.3	56.1	33.6	11.2	0.0	0.0
85°	22.4	16.8	28.0	39.2	56.1	50.5	39.2	28.0	11.2	0.0	0.0
87.5°	11.2	11.2	11.2	11.2	5.6	5.6	5.6	5.6	5.6	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)