

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: P534395

Luminaire Tested: **GALN-SA9D-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534395
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-SA9D-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 30149 lumens
Efficiency: N/A
Efficacy: 54.6 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

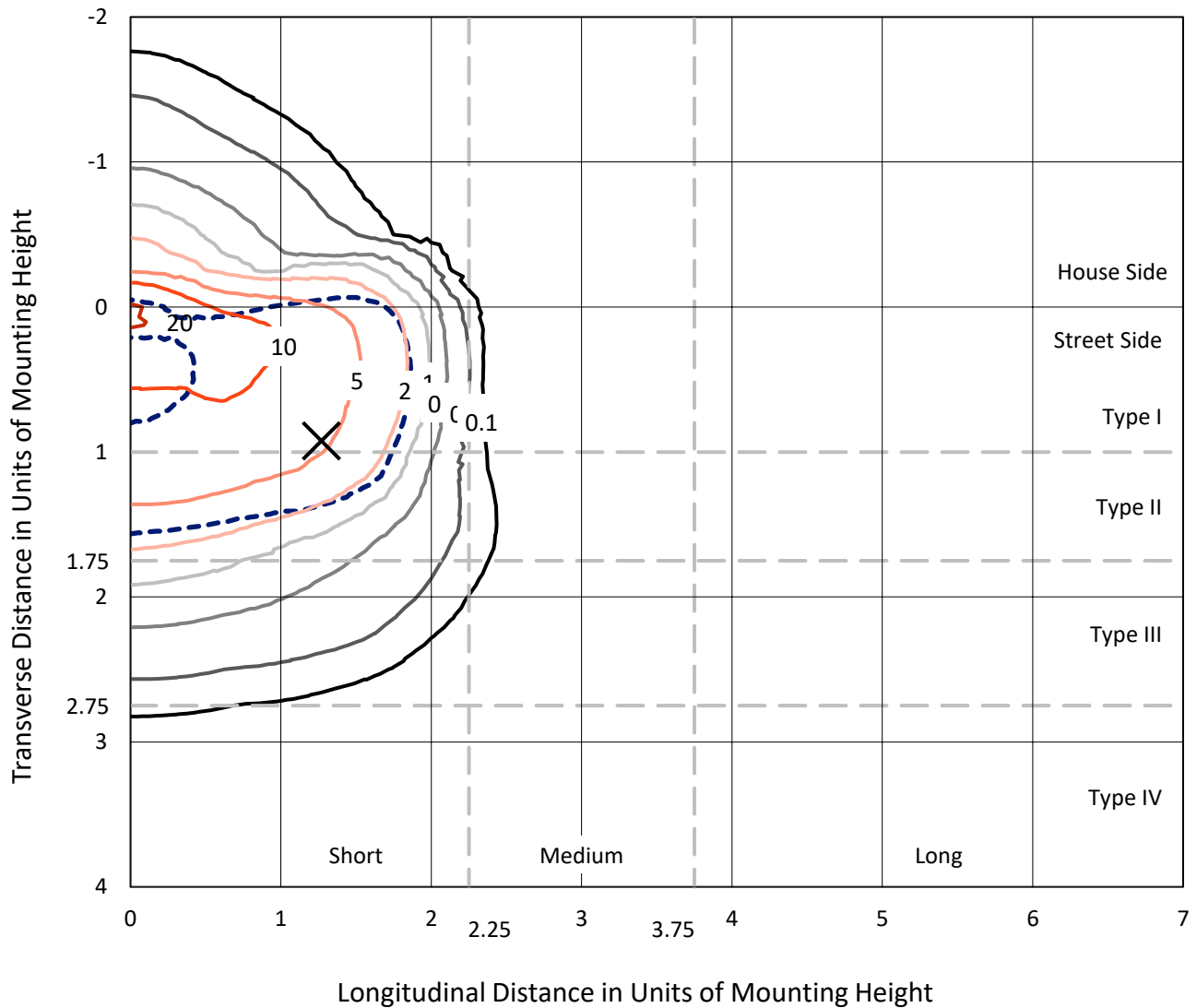
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

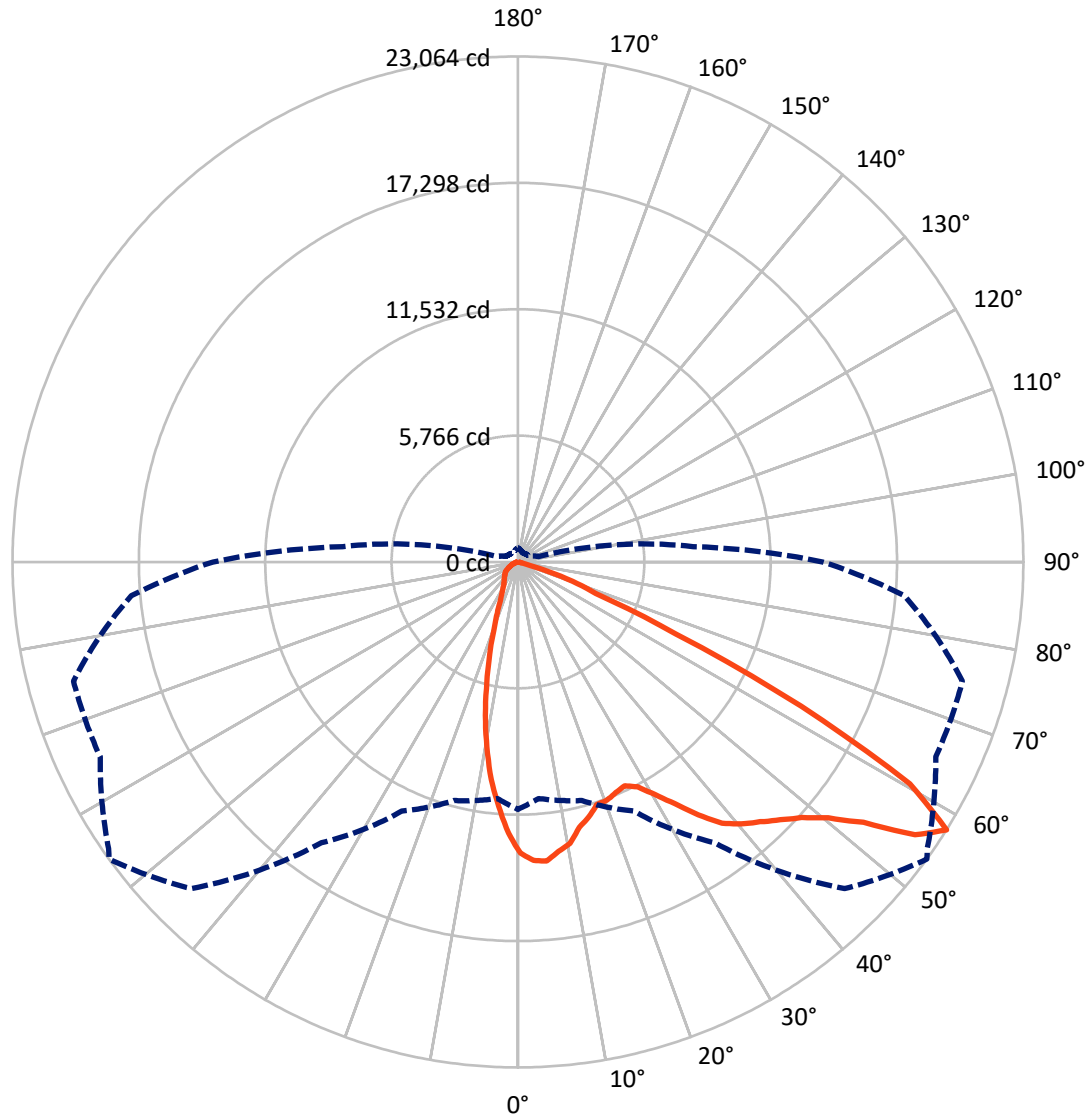
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 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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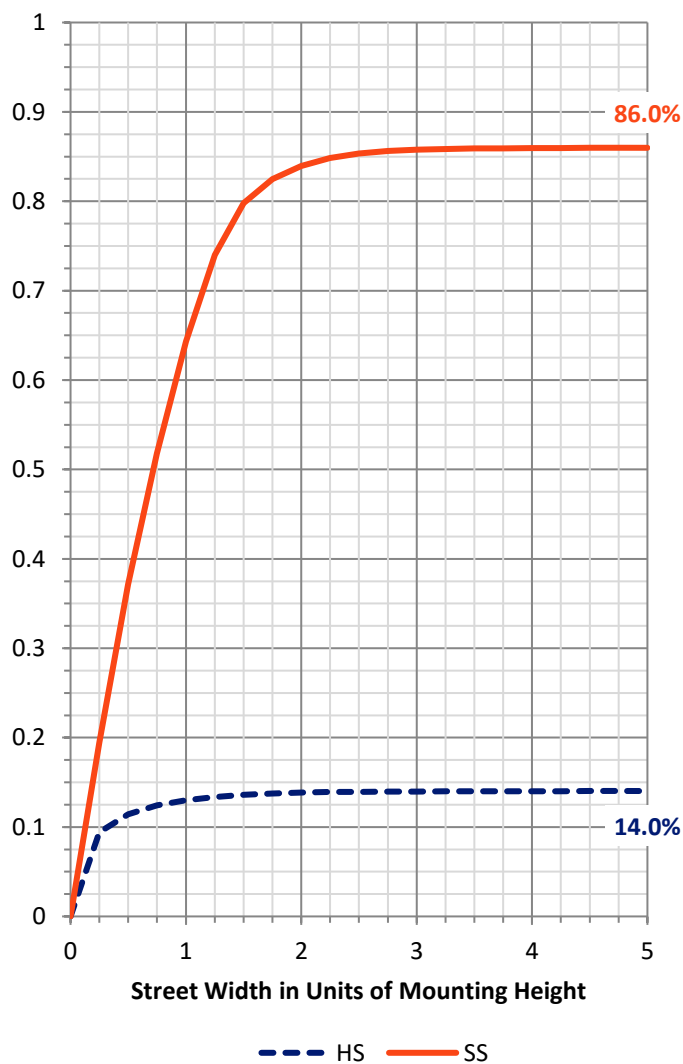
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4260.6	0.0	4260.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	25888.4	0.0	25888.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	30149.0	0.0	30149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1111.4	3.7
10°-20°	2372.8	7.9
20°-30°	3144.4	10.4
30°-40°	4569.7	15.2
40°-50°	6776.3	22.5
50°-60°	8473.4	28.1
60°-70°	3342.4	11.1
70°-80°	332.8	1.1
80°-90°	25.9	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°	30149.0	100.0
0°-180°	30149.0	100.0

Coefficient of Utilization



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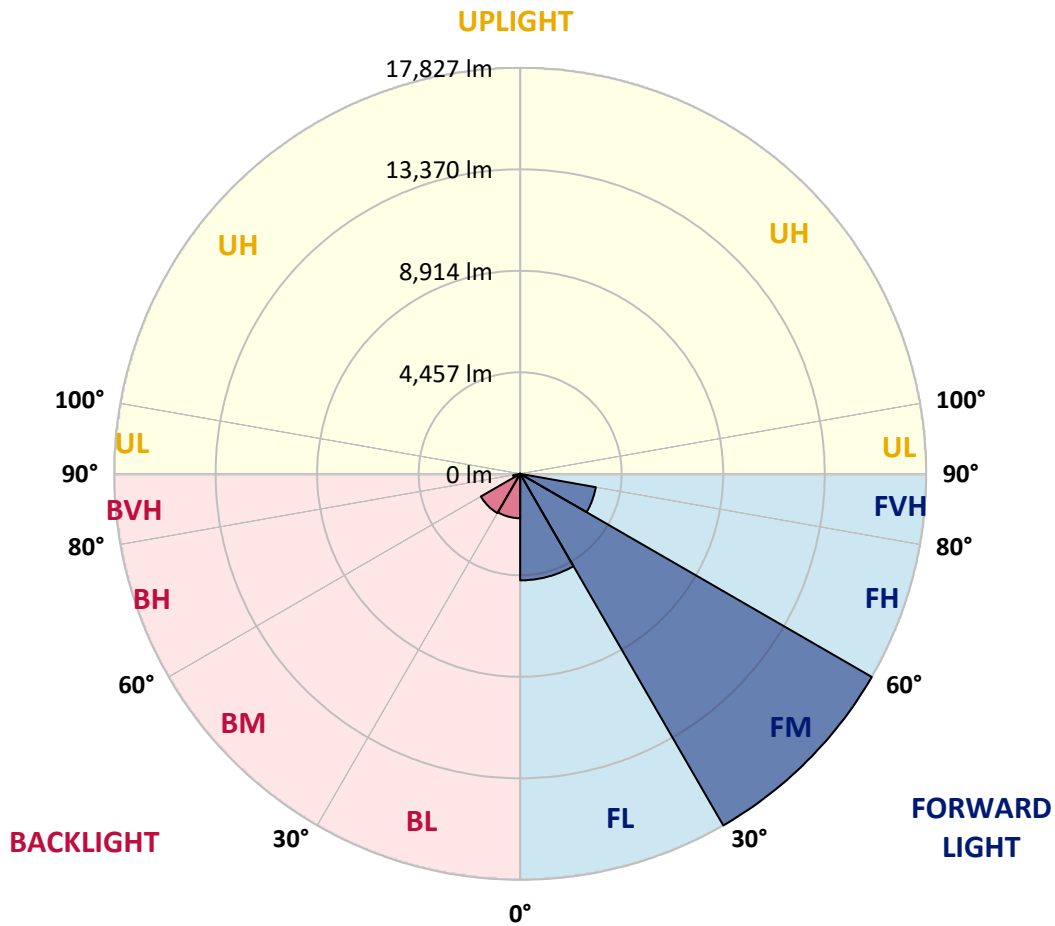
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4680.0	15.5			
FM (30°-60°)	17827.0	59.1			
FH (60°-80°)	3369.6	11.2			G2/5000
FVH (80°-90°)	11.7	0.0			G1/100
BL (0°-30°)	1948.6	6.5	B3/2500		
BM (30°-60°)	1992.3	6.6	B2/2500		
BH (60°-80°)	305.5	1.0	B1/500		G1/500
BVH (80°-90°)	14.1	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°	13281.0	13281.0	13281.0	13281.0	13281.0	13281.0	13281.0	13281.0	13281.0	13281.0	13281.0
2.5°	14054.7	13908.9	13920.1	13869.7	13802.4	13852.9	13634.2	13684.7	13679.1	13382.0	13185.7
5°	13701.5	13858.5	13695.9	13830.4	13701.5	13841.7	13707.1	13606.2	13443.6	13225.0	12860.6
7.5°	13101.6	12950.3	12995.1	13163.3	13191.3	13505.3	13337.1	13466.0	13398.8	12967.1	12468.1
10°	11896.3	11862.7	12086.9	12311.2	12585.9	12922.2	13051.2	12978.3	12927.9	12765.3	12098.1
12.5°	10971.3	11066.6	11061.0	11431.0	11896.3	12086.9	12423.3	12412.1	12692.4	12389.7	11750.6
15°	10091.1	10141.6	10377.0	10606.9	11122.7	11666.5	12081.3	12137.4	12473.8	12260.7	11481.5
17.5°	9552.9	9480.1	9665.1	9939.8	10466.7	11178.7	11638.4	11773.0	12232.7	12187.8	11173.1
20°	9020.3	9020.3	9171.7	9496.9	9979.0	10780.7	11599.2	11559.9	12232.7	12103.7	10842.4
22.5°	8840.9	8930.6	8969.9	9216.6	9788.4	10478.0	11431.0	11503.9	12328.0	12064.5	10696.6
25°	9087.6	8969.9	8981.1	9177.3	9715.5	10332.2	11307.7	11470.2	12501.8	12260.7	10578.9
27.5°	9126.9	9244.6	9278.2	9412.8	9771.6	10377.0	11616.0	11946.8	12933.5	12720.4	10612.5
30°	9468.8	9586.6	9581.0	9810.8	10057.5	10741.4	12305.6	12372.8	13824.8	13297.9	10819.9
32.5°	9883.7	10007.0	10046.3	10315.4	10511.6	11408.6	13146.5	13320.3	14682.6	14206.1	11363.7
35°	10399.5	10354.6	10534.0	10803.1	11223.6	12384.1	14172.4	14463.9	15607.6	15383.4	11924.3
37.5°	11044.2	10988.1	11161.9	11599.2	12171.0	13538.9	15119.9	15310.5	16280.3	16476.6	12961.5
40°	11498.3	11520.7	12047.7	12636.3	13241.8	14637.7	15719.7	15904.7	16751.3	17496.9	13746.4
42.5°	12255.1	12395.3	13028.8	13746.4	14379.9	15461.8	16207.5	16386.9	16969.9	18315.4	14805.9
45°	13353.9	13292.3	13993.0	14794.7	15495.5	16319.6	16784.9	16723.2	17098.8	19128.3	15473.1
47.5°	14766.7	14777.9	15243.2	15927.2	16656.0	17065.2	17429.6	17211.0	17367.9	19986.0	16364.4
50°	15730.9	15815.0	16190.6	16891.4	17255.8	17883.7	18349.0	18214.5	18164.0	20501.8	16925.1
52.5°	15977.6	16229.9	16431.7	17306.3	18158.4	19150.7	19745.0	20030.9	19133.9	20675.6	17637.0
55°	14116.4	14340.6	15052.6	16252.3	18500.4	21157.7	21976.2	21981.8	20400.9	21449.2	18136.0
57.5°	11285.2	10831.1	11268.4	12541.0	15641.2	21073.6	23063.8	22800.3	21034.4	20995.1	17704.3
60°	7803.8	7691.7	7719.7	8224.3	10825.5	16762.5	20552.3	20894.2	19369.4	18197.7	14015.4
62.5°	6183.6	6088.3	5965.0	5908.9	6721.8	10444.3	14497.6	14979.7	13544.5	11801.0	8308.4
65°	4843.7	4787.7	4804.5	5028.7	5023.1	5925.7	7927.1	7730.9	6189.2	4574.6	2612.5
67.5°	3268.4	3352.5	3419.8	4098.1	4445.7	4126.1	3829.0	3716.9	2012.6	846.5	577.4
70°	1838.8	1850.0	1922.9	2562.0	3374.9	3201.1	2640.5	2640.5	1003.5	308.3	330.8
72.5°	1003.5	969.9	902.6	1104.4	1502.5	1524.9	1177.3	1025.9	297.1	201.8	185.0
75°	487.7	482.1	414.9	342.0	325.2	269.1	207.4	190.6	134.5	128.9	112.1
77.5°	100.9	95.3	50.5	50.5	56.1	61.7	78.5	78.5	95.3	95.3	78.5
80°	0.0	0.0	5.6	22.4	39.2	56.1	67.3	67.3	78.5	78.5	61.7
82.5°	0.0	0.0	5.6	16.8	33.6	50.5	61.7	67.3	78.5	84.1	67.3
85°	0.0	0.0	0.0	11.2	28.0	39.2	33.6	33.6	28.0	22.4	11.2
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°	13281.0	13281.0	13281.0	13281.0	13281.0	13281.0	13281.0	13281.0	13281.0	13281.0	13281.0
2.5°	13084.8	13073.6	12815.7	12670.0	12406.5	12176.6	11991.6	11857.1	11857.1	11773.0	11694.5
5°	12714.8	12619.5	12070.1	11716.9	11218.0	10848.0	10595.7	10399.5	10091.1	10175.2	9844.5
7.5°	12255.1	12014.0	11285.2	10747.0	10057.5	9530.5	8992.3	8515.8	8056.1	7848.7	7960.8
10°	11761.8	11341.3	10360.2	9508.1	8650.3	7686.1	7058.2	6295.7	5824.8	5796.8	5673.5
12.5°	11240.4	10763.9	9569.7	8392.5	7265.6	6105.1	5146.5	4434.5	4114.9	3761.7	3829.0
15°	10848.0	10141.6	8689.6	7271.2	5774.4	4602.7	3638.4	3089.0	2786.3	2702.2	2674.1
17.5°	10421.9	9665.1	7792.6	6077.1	4529.8	3313.3	2618.1	2354.6	2236.9	2236.9	2220.0
20°	9979.0	9126.9	6901.2	4967.1	3397.3	2472.3	2096.7	2012.6	2007.0	2001.4	2001.4
22.5°	9687.5	8510.2	6093.9	3946.8	2562.0	1979.0	1822.0	1788.4	1810.8	1878.1	1878.1
25°	9379.1	7915.9	5202.5	3044.2	1984.6	1698.7	1609.0	1631.4	1687.5	1749.1	1726.7
27.5°	9065.2	7529.1	4361.6	2388.2	1625.8	1485.6	1452.0	1502.5	1564.1	1620.2	1603.4
30°	8992.3	7114.2	3565.5	1810.8	1395.9	1295.0	1317.5	1362.3	1424.0	1446.4	1468.8
32.5°	9104.4	6789.1	2920.8	1485.6	1216.5	1188.5	1188.5	1210.9	1250.2	1300.6	1283.8
35°	9424.0	6604.1	2309.7	1289.4	1115.6	1087.6	1082.0	1104.4	1126.8	1143.7	1126.8
37.5°	9911.7	6458.3	1889.3	1143.7	1048.4	1003.5	992.3	986.7	1009.1	1014.7	1025.9
40°	10534.0	6536.8	1603.4	1054.0	981.1	930.6	897.0	897.0	897.0	913.8	919.4
42.5°	11206.8	6643.3	1384.7	1003.5	919.4	857.7	824.1	812.9	824.1	846.5	840.9
45°	11913.1	6850.8	1244.6	925.0	863.4	784.9	740.0	728.8	756.8	801.7	796.1
47.5°	12574.7	7147.9	1138.1	874.6	807.3	734.4	678.3	667.1	717.6	779.3	784.9
50°	13236.2	7663.6	1098.8	835.3	768.0	684.0	633.5	622.3	678.3	756.8	773.7
52.5°	13998.6	8218.7	1070.8	784.9	723.2	644.7	588.6	577.4	639.1	740.0	745.6
55°	14497.6	8689.6	1048.4	695.2	639.1	583.0	538.2	532.6	599.9	689.6	712.0
57.5°	13914.5	8033.7	969.9	605.5	543.8	515.8	476.5	476.5	532.6	616.7	633.5
60°	10550.8	5286.6	689.6	487.7	459.7	442.9	426.1	426.1	470.9	532.6	538.2
62.5°	6178.0	2847.9	442.9	392.4	392.4	375.6	347.6	347.6	392.4	426.1	431.7
65°	1833.2	913.8	358.8	336.4	330.8	302.7	274.7	269.1	302.7	319.6	313.9
67.5°	527.0	420.5	297.1	280.3	274.7	229.9	213.0	207.4	213.0	201.8	196.2
70°	313.9	285.9	229.9	235.5	207.4	168.2	151.4	145.8	134.5	117.7	106.5
72.5°	173.8	173.8	168.2	179.4	145.8	112.1	95.3	78.5	61.7	50.5	44.8
75°	106.5	112.1	117.7	123.3	95.3	72.9	61.7	39.2	22.4	11.2	11.2
77.5°	72.9	78.5	84.1	89.7	78.5	67.3	50.5	28.0	5.6	0.0	0.0
80°	56.1	61.7	72.9	78.5	84.1	89.7	67.3	28.0	5.6	0.0	0.0
82.5°	61.7	67.3	84.1	78.5	78.5	78.5	61.7	28.0	5.6	0.0	0.0
85°	11.2	16.8	28.0	28.0	39.2	50.5	39.2	11.2	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)