

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: P531751

Luminaire Tested: **GALN-SA7A-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21066 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

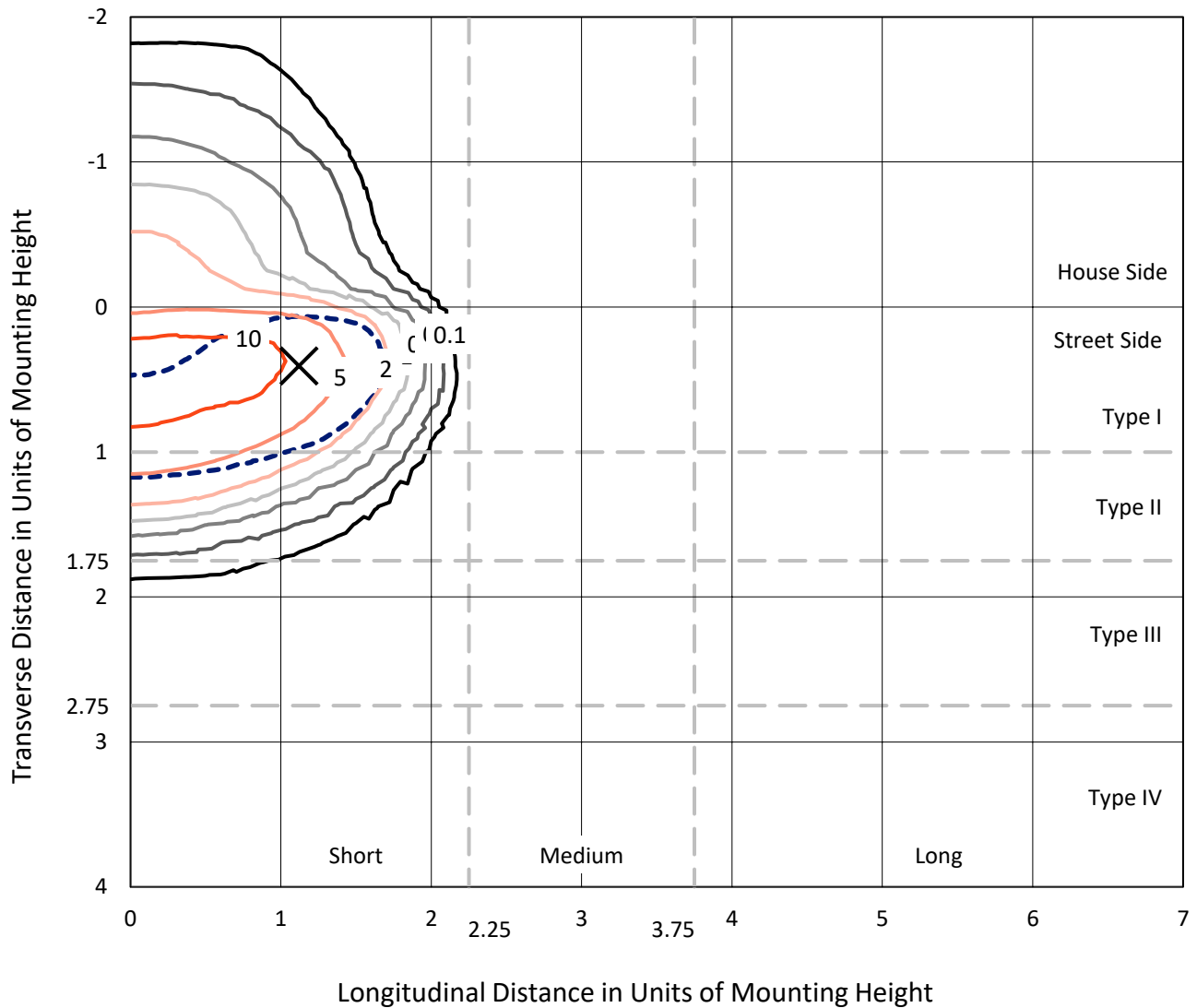
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

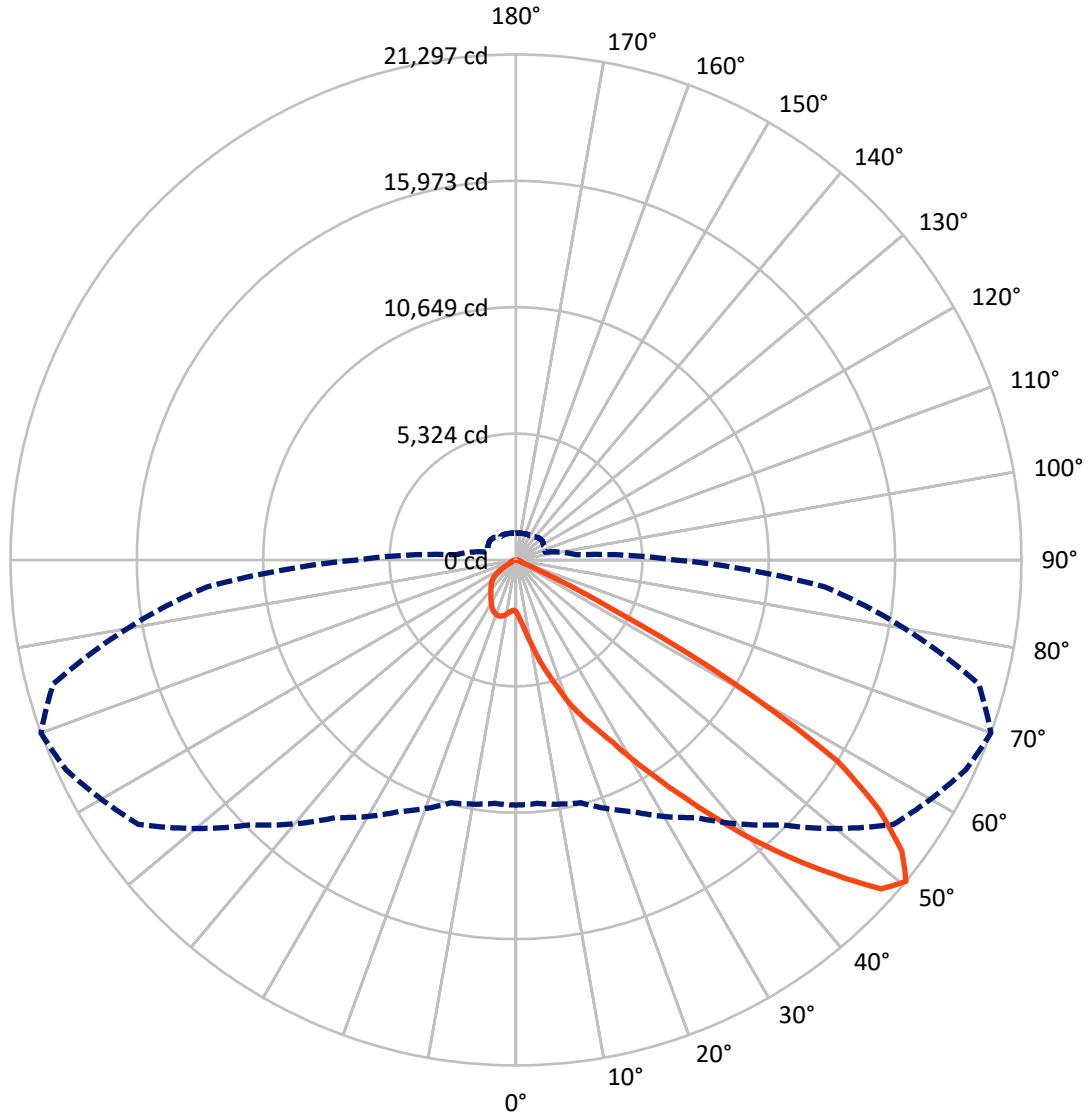
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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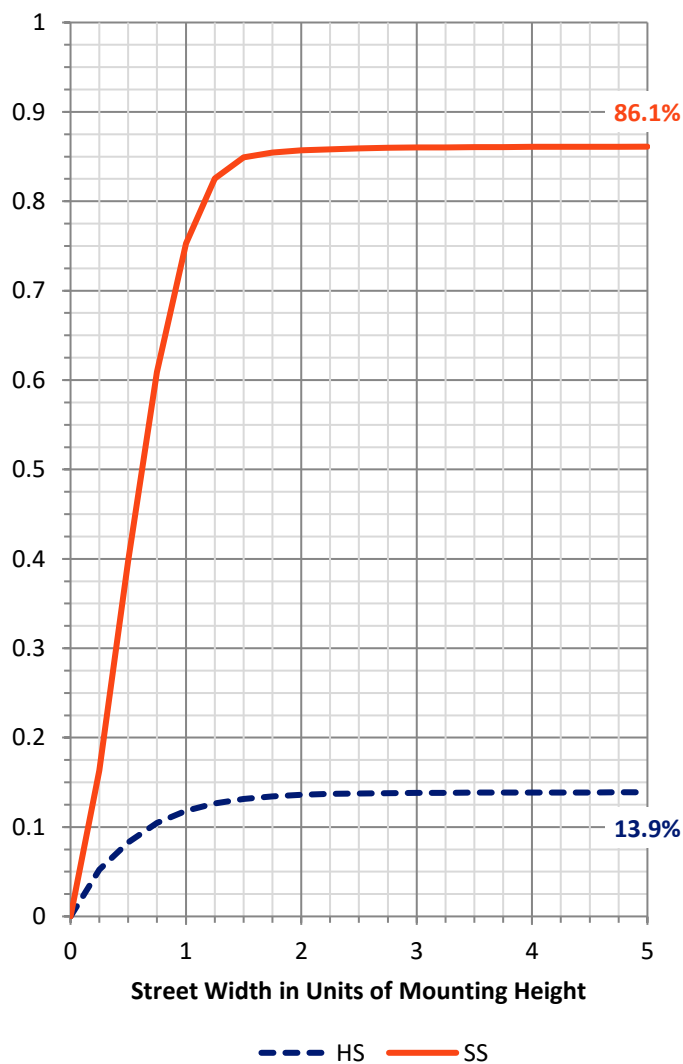
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2942.0	0.0	2942.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18124.0	0.0	18124.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	21066.0	0.0	21066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	1.3
10°-20°	1227.4	5.8
20°-30°	2574.8	12.2
30°-40°	4438.1	21.1
40°-50°	6486.3	30.8
50°-60°	5051.7	24.0
60°-70°	855.9	4.1
70°-80°	117.6	0.6
80°-90°	30.5	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°	21066.0	100.0
0°-180°	21066.0	100.0

Coefficient of Utilization



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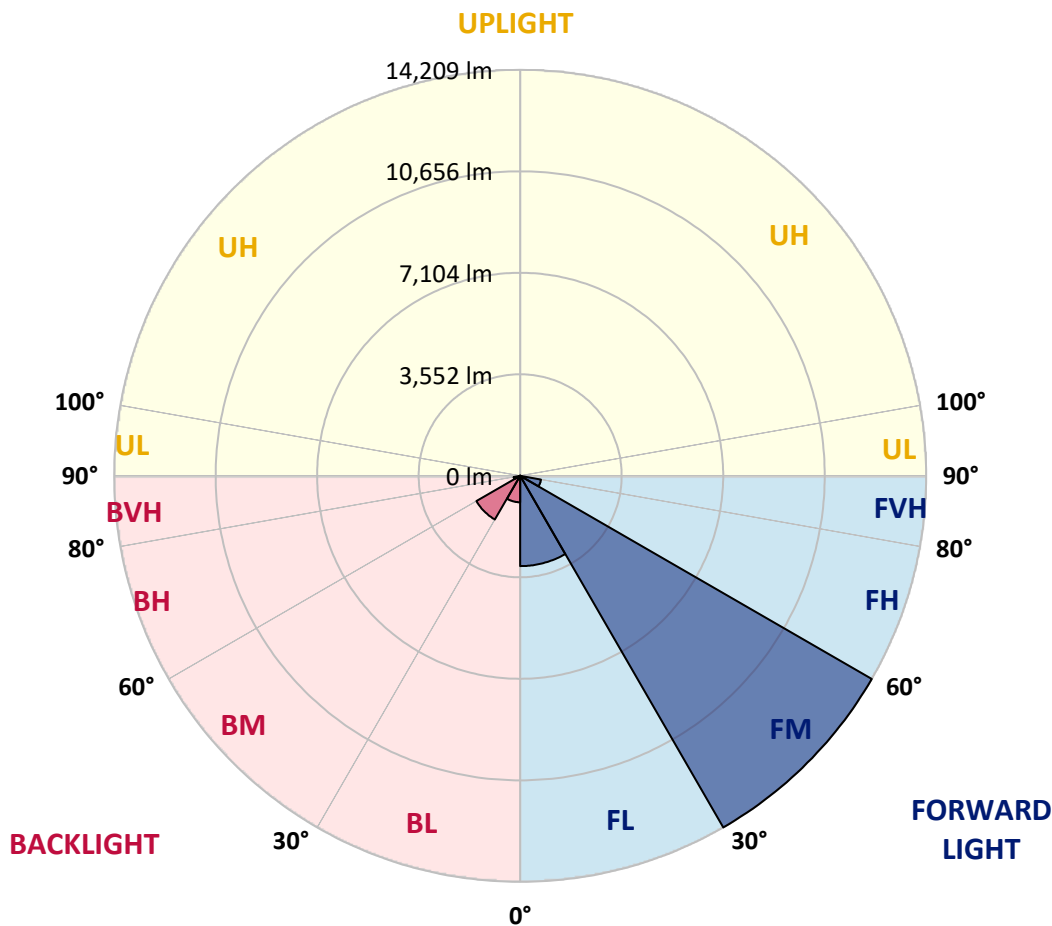
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3160.1	15.0			
FM (30°-60°)	14208.6	67.4			
FH (60°-80°)	741.1	3.5			G1/1800
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	925.8	4.4	B2/1000		
BM (30°-60°)	1767.5	8.4	B2/2500		
BH (60°-80°)	232.4	1.1	B1/500		G1/500
BVH (80°-90°)	16.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0
2.5°	2857.4	2836.6	2791.6	2708.5	2673.8	2590.7	2542.2	2448.7	2389.8	2324.0	2251.3
5°	4024.6	3917.3	3851.4	3757.9	3484.3	3314.6	3034.1	2795.1	2684.2	2563.0	2396.8
7.5°	5229.9	5160.7	5070.6	4869.7	4682.7	4329.4	3848.0	3321.5	3096.4	2888.6	2559.5
10°	6227.4	6033.5	6023.1	5874.1	5669.8	5247.2	4668.8	4014.2	3612.5	3307.7	2791.6
12.5°	6923.6	6747.0	6826.6	6809.3	6618.8	6230.9	5562.4	4696.5	4277.5	3803.0	3030.6
15°	7557.4	7484.7	7460.4	7439.7	7363.5	7076.0	6476.8	5527.8	4921.7	4350.2	3300.7
17.5°	8177.4	7990.4	8080.4	8097.7	8090.8	7831.0	7269.9	6317.5	5604.0	4928.6	3584.8
20°	8728.1	8745.4	8624.2	8599.9	8579.2	8568.8	8021.5	7100.2	6442.2	5534.7	3955.3
22.5°	9434.7	9313.4	9420.8	9351.5	9216.4	9133.3	8714.2	7792.9	7169.5	6265.5	4332.9
25°	10269.4	10366.3	10113.5	10085.8	9936.9	9649.4	9271.9	8568.8	7869.1	6944.4	4741.6
27.5°	11298.0	11128.3	11062.5	10910.1	10640.0	10518.7	10075.4	9368.8	8714.2	7657.9	5136.4
30°	12181.2	12136.2	11807.2	11627.1	11391.5	11388.1	10768.1	10452.9	9815.6	8776.6	5680.2
32.5°	12901.6	12704.2	12583.0	12458.3	12267.8	12319.8	11796.8	11630.5	10989.8	9815.6	6320.9
35°	13383.1	13241.1	13168.3	12977.8	12922.4	13154.5	12936.3	12867.0	12340.6	11277.2	7072.5
37.5°	13535.5	13580.5	13566.6	13327.7	13445.4	14072.3	14352.9	14172.8	13895.7	12818.5	7886.5
40°	13670.5	13701.7	13632.4	13913.0	14249.0	14962.4	15977.3	15679.4	15575.5	14380.6	9019.0
42.5°	13746.7	13722.5	13722.5	14207.4	14716.5	16150.4	17546.2	17348.8	17269.2	16043.1	10328.2
45°	13417.7	13182.2	13435.0	14093.1	15118.3	16735.8	18800.0	19073.6	18959.4	18020.7	11859.1
47.5°	12188.2	12333.6	12475.6	13355.4	14629.9	16555.7	19568.9	20500.6	20711.9	19683.2	12863.5
50°	10328.2	10297.1	10591.5	11699.8	13248.0	15779.8	19420.0	20912.8	21297.2	20182.0	13074.8
52.5°	7512.4	7741.0	8059.6	9161.0	10996.7	13771.0	17497.7	19849.5	20362.1	19568.9	12936.3
55°	4374.4	4121.6	4838.5	5770.2	7502.0	10387.1	14792.7	17594.7	18543.7	18453.7	12236.6
57.5°	1752.5	1697.1	1943.0	2618.4	3913.8	6438.7	10757.7	14456.8	15977.3	16902.0	10754.3
60°	768.9	751.6	883.2	1066.8	1600.2	2968.2	5884.5	8991.3	10577.6	11810.6	7401.6
62.5°	554.2	547.2	613.0	678.9	845.1	1291.9	2473.0	3622.9	4516.4	5455.1	3314.6
65°	446.8	464.1	509.1	543.8	623.4	717.0	872.8	1007.9	1236.5	1281.5	730.8
67.5°	363.7	377.5	419.1	457.2	471.0	387.9	401.8	353.3	353.3	315.2	252.8
70°	266.7	270.2	318.6	363.7	290.9	155.9	273.6	273.6	245.9	235.5	214.7
72.5°	197.4	200.9	239.0	225.1	114.3	97.0	200.9	221.7	200.9	190.5	173.2
75°	145.5	148.9	124.7	52.0	48.5	62.3	117.8	152.4	145.5	142.0	131.6
77.5°	27.7	20.8	17.3	24.2	34.6	52.0	76.2	93.5	97.0	103.9	97.0
80°	3.5	3.5	10.4	20.8	38.1	55.4	79.7	90.1	93.5	97.0	90.1
82.5°	0.0	3.5	10.4	20.8	38.1	52.0	69.3	79.7	86.6	90.1	86.6
85°	0.0	3.5	6.9	17.3	31.2	38.1	34.6	24.2	20.8	24.2	17.3
87.5°	0.0	0.0	3.5	3.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9
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°	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0	2182.0
2.5°	2209.7	2195.9	2147.4	2095.4	2050.4	2071.2	2050.4	2033.1	2040.0	2033.1	2026.2
5°	2331.0	2268.6	2164.7	2119.7	2081.6	2078.1	2067.7	2064.3	2067.7	2067.7	2036.6
7.5°	2445.3	2344.8	2234.0	2185.5	2140.5	2143.9	2119.7	2119.7	2116.2	2098.9	2092.0
10°	2618.4	2483.3	2341.3	2254.8	2199.3	2188.9	2164.7	2140.5	2140.5	2140.5	2105.8
12.5°	2808.9	2639.2	2445.3	2344.8	2279.0	2227.0	2188.9	2182.0	2143.9	2137.0	2119.7
15°	2975.2	2760.4	2514.5	2376.0	2292.9	2223.6	2164.7	2126.6	2109.3	2098.9	2085.0
17.5°	3138.0	2864.3	2552.6	2376.0	2285.9	2206.3	2143.9	2109.3	2067.7	2074.7	2046.9
20°	3356.2	2975.2	2563.0	2331.0	2220.1	2143.9	2060.8	2043.5	2019.2	1998.5	2005.4
22.5°	3567.4	3054.8	2531.8	2275.5	2116.2	2026.2	1984.6	1963.8	1953.4	1936.1	1911.9
25°	3757.9	3141.4	2483.3	2175.1	2005.4	1939.6	1901.5	1898.0	1873.8	1873.8	1828.7
27.5°	3951.9	3172.6	2400.2	2057.3	1908.4	1870.3	1853.0	1846.1	1835.7	1811.4	1780.3
30°	4173.6	3183.0	2279.0	1936.1	1821.8	1780.3	1804.5	1821.8	1776.8	1731.8	1745.6
32.5°	4357.1	3158.7	2133.5	1821.8	1759.5	1738.7	1787.2	1804.5	1752.5	1704.1	1679.8
35°	4578.8	3099.9	1991.5	1731.8	1697.1	1738.7	1780.3	1780.3	1676.3	1617.5	1603.6
37.5°	4914.7	3034.1	1859.9	1655.6	1631.3	1717.9	1773.3	1735.2	1572.4	1499.7	1482.4
40°	5275.0	2992.5	1731.8	1579.4	1596.7	1683.3	1714.4	1596.7	1430.4	1385.4	1371.6
42.5°	5797.9	2909.4	1617.5	1513.6	1565.5	1634.8	1634.8	1423.5	1361.2	1336.9	1333.5
45°	6449.1	2850.5	1517.0	1458.1	1520.5	1537.8	1482.4	1333.5	1288.4	1281.5	1285.0
47.5°	6767.7	2736.2	1413.1	1392.3	1437.4	1440.8	1295.4	1260.7	1222.6	1212.2	1205.3
50°	6719.2	2531.8	1278.0	1305.8	1368.1	1333.5	1181.1	1188.0	1153.4	1149.9	1132.6
52.5°	6379.8	2209.7	1143.0	1208.8	1278.0	1177.6	1087.5	1080.6	1080.6	1035.6	1018.3
55°	5655.9	1780.3	980.2	1063.3	1146.4	990.6	966.3	959.4	942.1	900.5	890.1
57.5°	4478.3	1305.8	737.7	827.8	973.3	841.6	838.2	807.0	762.0	730.8	730.8
60°	2663.5	751.6	464.1	505.7	644.2	682.3	758.5	744.7	668.5	620.0	606.1
62.5°	1215.7	387.9	294.4	301.3	346.4	443.3	595.7	689.2	581.9	498.7	491.8
65°	408.7	287.5	242.4	232.1	239.0	266.7	356.7	488.4	464.1	384.5	370.6
67.5°	249.4	256.3	228.6	211.3	211.3	207.8	204.3	221.7	273.6	266.7	270.2
70°	214.7	235.5	211.3	190.5	183.6	173.2	145.5	121.2	103.9	121.2	128.2
72.5°	173.2	187.0	180.1	162.8	145.5	131.6	103.9	79.7	58.9	52.0	52.0
75°	128.2	138.5	145.5	124.7	110.8	93.5	76.2	52.0	31.2	20.8	20.8
77.5°	93.5	103.9	107.4	97.0	83.1	65.8	48.5	34.6	17.3	6.9	6.9
80°	79.7	93.5	103.9	97.0	86.6	62.3	45.0	24.2	13.9	3.5	3.5
82.5°	76.2	93.5	103.9	93.5	83.1	58.9	45.0	27.7	10.4	3.5	3.5
85°	17.3	24.2	31.2	38.1	45.0	45.0	34.6	20.8	10.4	3.5	3.5
87.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	3.5	3.5	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)