

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: P532609

Luminaire Tested: **GALN-SA8A-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532609
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-SA8A-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 20425 lumens
Efficiency: N/A
Efficacy: 83.7 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

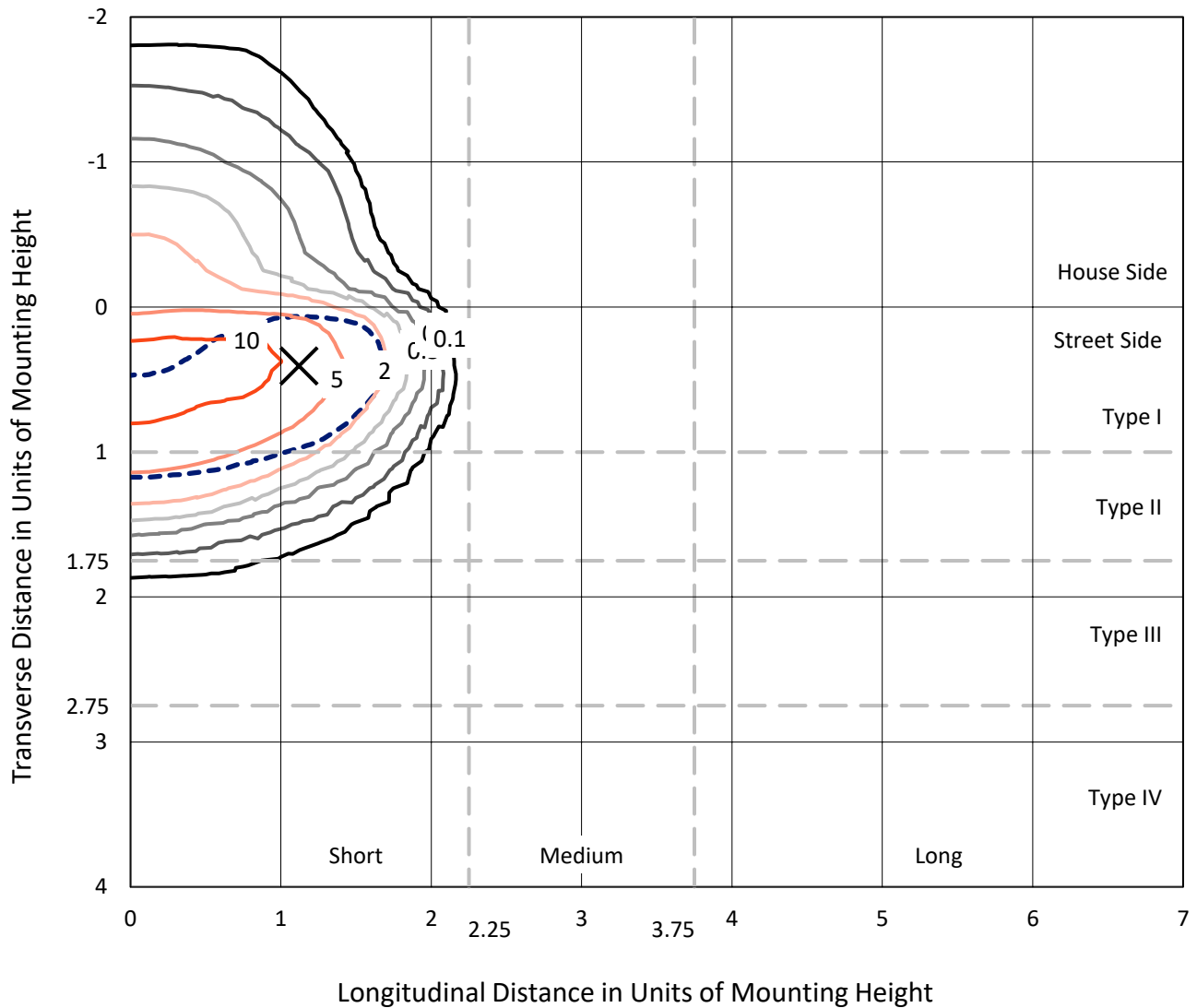
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532609
 CATALOG NUMBER: GALN-SA8A-727-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

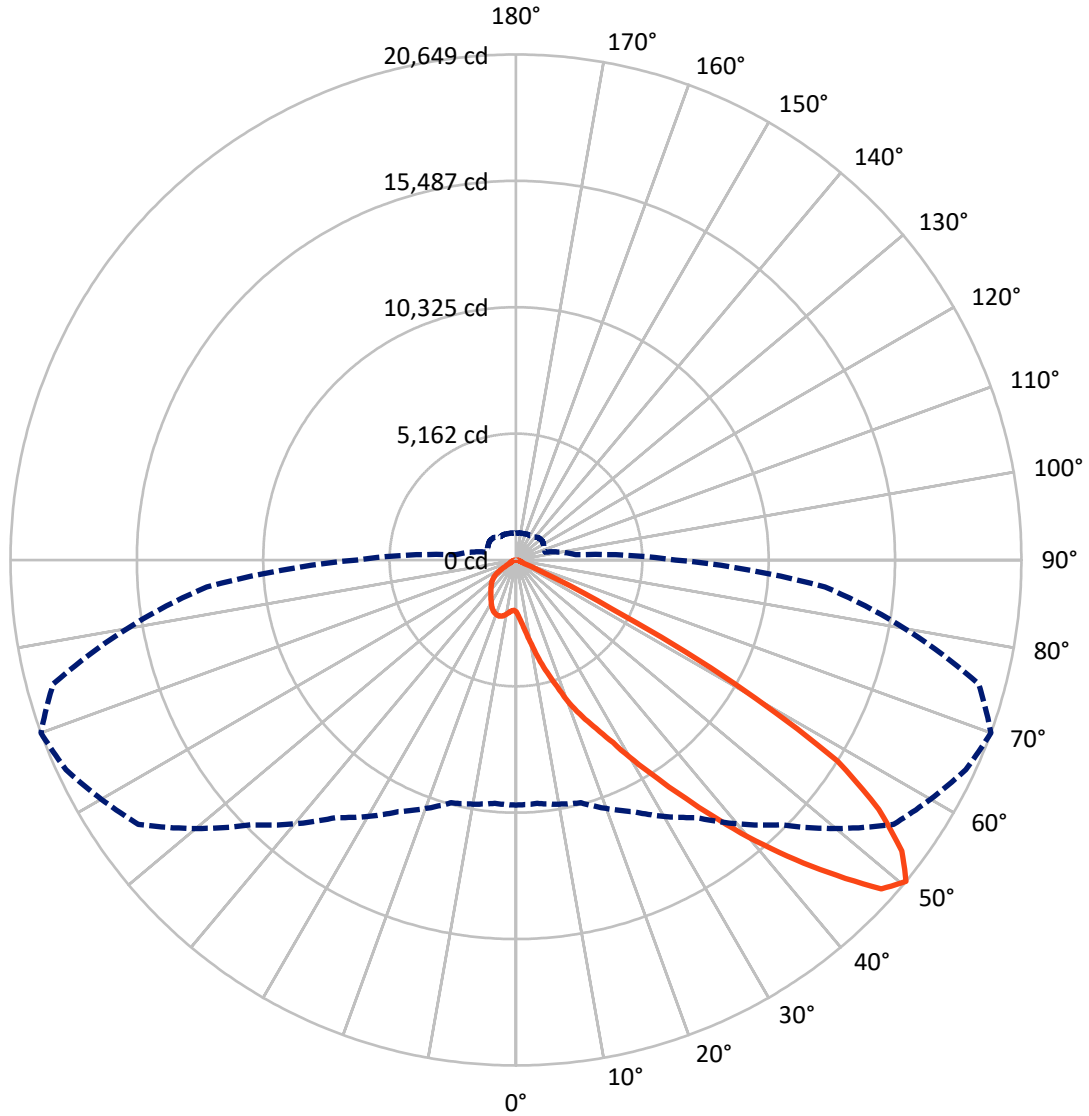
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type I - Short - N/A

REPORT NUMBER: P532609
CATALOG NUMBER: GALN-SA8A-727-U-T2R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P532609

CATALOG NUMBER: GALN-SA8A-727-U-T2R-GRSBK

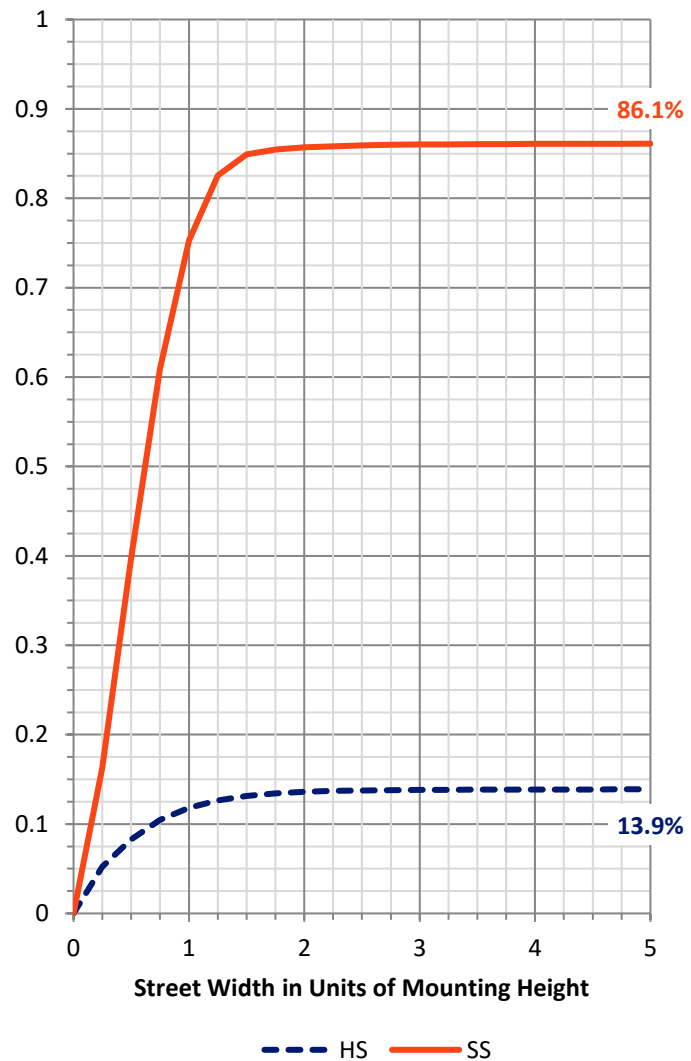
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2852.5	0.0	2852.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17572.5	0.0	17572.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	20425.0	0.0	20425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.1	1.3
10°-20°	1190.0	5.8
20°-30°	2496.5	12.2
30°-40°	4303.1	21.1
40°-50°	6288.9	30.8
50°-60°	4898.0	24.0
60°-70°	829.9	4.1
70°-80°	114.0	0.6
80°-90°	29.5	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°	20425.0	100.0
0°-180°	20425.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532609

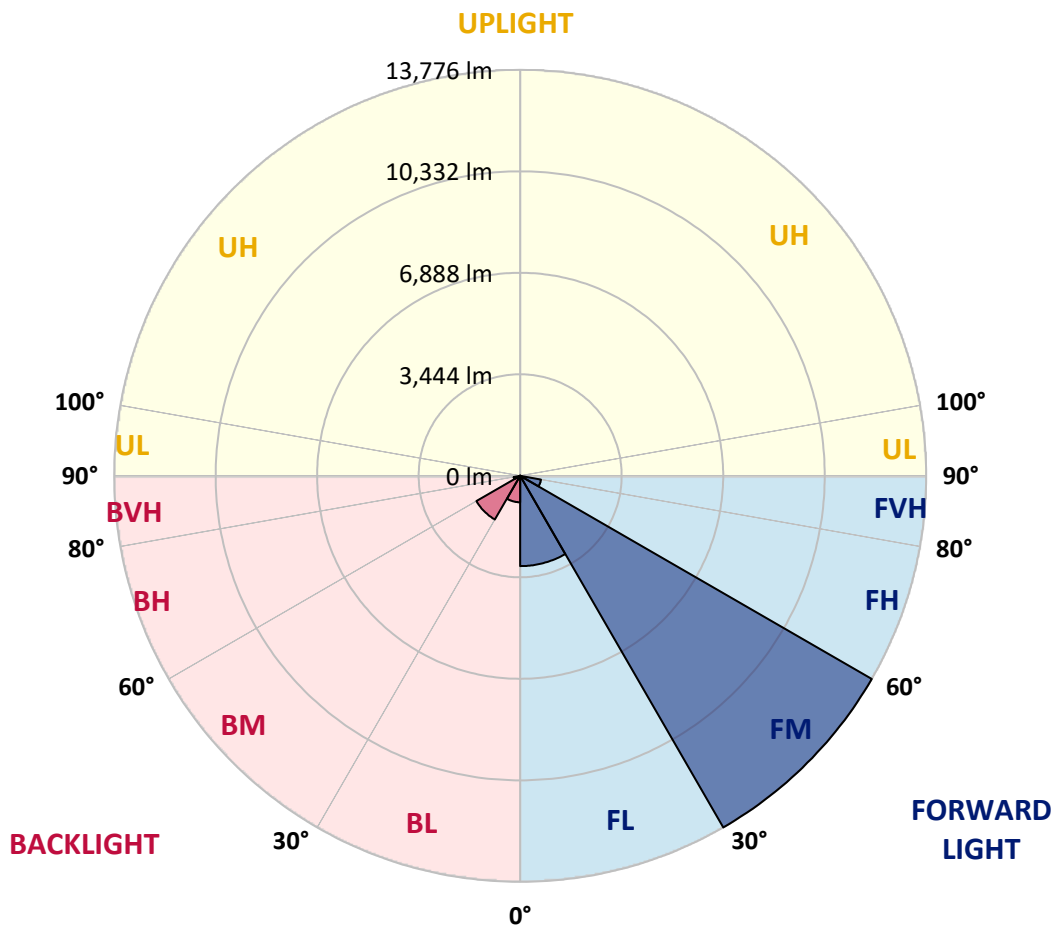
CATALOG NUMBER: GALN-SA8A-727-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3064.0	15.0			
FM (30°-60°)	13776.3	67.4			
FH (60°-80°)	718.6	3.5			G1/1800
FVH (80°-90°)	13.7	0.1			G1/100
BL (0°-30°)	897.6	4.4	B2/1000		
BM (30°-60°)	1713.7	8.4	B2/2500		
BH (60°-80°)	225.3	1.1	B1/500		G1/500
BVH (80°-90°)	15.9	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





REPORT NUMBER: P532609

CATALOG NUMBER: GALN-SA8A-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6
2.5°	2770.5	2750.3	2706.7	2626.1	2592.5	2511.9	2464.9	2374.2	2317.1	2253.3	2182.8
5°	3902.2	3798.1	3734.3	3643.6	3378.3	3213.7	2941.7	2710.0	2602.6	2485.0	2323.8
7.5°	5070.8	5003.6	4916.3	4721.5	4540.2	4197.7	3730.9	3220.5	3002.2	2800.7	2481.7
10°	6037.9	5849.9	5839.8	5695.4	5497.3	5087.6	4526.8	3892.1	3502.5	3207.0	2706.7
12.5°	6712.9	6541.7	6618.9	6602.1	6417.4	6041.3	5393.2	4553.6	4147.3	3687.2	2938.4
15°	7327.5	7256.9	7233.4	7213.3	7139.4	6860.7	6279.7	5359.6	4771.9	4217.8	3200.3
17.5°	7928.6	7747.2	7834.5	7851.3	7844.6	7592.8	7048.7	6125.2	5433.5	4778.6	3475.7
20°	8462.5	8479.3	8361.8	8338.3	8318.1	8308.0	7777.5	6884.2	6246.1	5366.3	3835.0
22.5°	9147.6	9030.0	9134.1	9067.0	8936.0	8855.4	8449.1	7555.8	6951.3	6074.9	4201.0
25°	9956.9	10050.9	9805.8	9778.9	9634.5	9355.8	8989.7	8308.0	7629.7	6733.1	4597.3
27.5°	10954.3	10789.7	10725.9	10578.1	10316.2	10198.7	9768.8	9083.8	8449.1	7424.8	4980.1
30°	11810.6	11766.9	11447.9	11273.3	11044.9	11041.6	10440.5	10134.9	9517.0	8509.5	5507.3
32.5°	12509.1	12317.7	12200.1	12079.2	11894.5	11944.9	11437.8	11276.6	10655.4	9517.0	6128.6
35°	12975.9	12838.2	12767.6	12582.9	12529.2	12754.2	12542.7	12475.5	11965.1	10934.1	6857.3
37.5°	13123.6	13167.3	13153.8	12922.1	13036.3	13644.1	13916.1	13741.5	13472.9	12428.5	7646.5
40°	13254.6	13284.8	13217.6	13489.6	13815.4	14507.2	15491.1	15202.3	15101.6	13943.0	8744.6
42.5°	13328.5	13304.9	13304.9	13775.1	14268.7	15659.0	17012.3	16820.9	16743.7	15554.9	10014.0
45°	13009.4	12781.1	13026.2	13664.3	14658.3	16226.5	18228.0	18493.3	18382.5	17472.4	11498.3
47.5°	11817.3	11958.3	12096.0	12949.0	14184.8	16051.9	18973.5	19876.8	20081.7	19084.3	12472.1
50°	10014.0	9983.7	10269.2	11343.8	12844.9	15299.7	18829.1	20276.4	20649.2	19567.9	12677.0
52.5°	7283.8	7505.4	7814.4	8882.3	10662.1	13352.0	16965.3	19245.5	19742.5	18973.5	12542.7
55°	4241.3	3996.2	4691.3	5594.7	7273.7	10071.1	14342.6	17059.3	17979.5	17892.2	11864.3
57.5°	1699.2	1645.5	1883.9	2538.8	3794.7	6242.8	10430.4	14016.9	15491.1	16387.7	10427.0
60°	745.5	728.7	856.3	1034.3	1551.5	2877.9	5705.5	8717.7	10255.8	11451.3	7176.3
62.5°	537.3	530.6	594.4	658.2	819.4	1252.6	2397.7	3512.6	4379.0	5289.1	3213.7
65°	433.2	450.0	493.6	527.2	604.5	695.1	846.3	977.2	1198.9	1242.5	708.6
67.5°	352.6	366.0	406.3	443.3	456.7	376.1	389.5	342.5	342.5	305.6	245.1
70°	258.6	261.9	308.9	352.6	282.1	151.1	265.3	265.3	238.4	228.4	208.2
72.5°	191.4	194.8	231.7	218.3	110.8	94.0	194.8	214.9	194.8	184.7	167.9
75°	141.0	144.4	120.9	50.4	47.0	60.4	114.2	147.8	141.0	137.7	127.6
77.5°	26.9	20.1	16.8	23.5	33.6	50.4	73.9	90.7	94.0	100.7	94.0
80°	3.4	3.4	10.1	20.1	36.9	53.7	77.2	87.3	90.7	94.0	87.3
82.5°	0.0	3.4	10.1	20.1	36.9	50.4	67.2	77.2	84.0	87.3	84.0
85°	0.0	3.4	6.7	16.8	30.2	36.9	33.6	23.5	20.1	23.5	16.8
87.5°	0.0	0.0	3.4	3.4	6.7	6.7	6.7	6.7	6.7	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P532609

CATALOG NUMBER: GALN-SA8A-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6	2115.6
2.5°	2142.5	2129.1	2082.0	2031.7	1988.0	2008.2	1988.0	1971.2	1977.9	1971.2	1964.5
5°	2260.0	2199.6	2098.8	2055.2	2018.2	2014.9	2004.8	2001.5	2004.8	2004.8	1974.6
7.5°	2370.8	2273.5	2166.0	2119.0	2075.3	2078.7	2055.2	2055.2	2051.8	2035.0	2028.3
10°	2538.8	2407.8	2270.1	2186.1	2132.4	2122.3	2098.8	2075.3	2075.3	2075.3	2041.7
12.5°	2723.5	2558.9	2370.8	2273.5	2209.7	2159.3	2122.3	2115.6	2078.7	2072.0	2055.2
15°	2884.6	2676.4	2438.0	2303.7	2223.1	2155.9	2098.8	2061.9	2045.1	2035.0	2021.6
17.5°	3042.5	2777.2	2474.9	2303.7	2216.4	2139.1	2078.7	2045.1	2004.8	2011.5	1984.7
20°	3254.0	2884.6	2485.0	2260.0	2152.6	2078.7	1998.1	1981.3	1957.8	1937.6	1944.4
22.5°	3458.9	2961.9	2454.8	2206.3	2051.8	1964.5	1924.2	1904.1	1894.0	1877.2	1853.7
25°	3643.6	3045.8	2407.8	2108.9	1944.4	1880.6	1843.6	1840.3	1816.8	1816.8	1773.1
27.5°	3831.6	3076.1	2327.2	1994.7	1850.3	1813.4	1796.6	1789.9	1779.8	1756.3	1726.1
30°	4046.6	3086.1	2209.7	1877.2	1766.4	1726.1	1749.6	1766.4	1722.7	1679.1	1692.5
32.5°	4224.5	3062.6	2068.6	1766.4	1705.9	1685.8	1732.8	1749.6	1699.2	1652.2	1628.7
35°	4439.5	3005.5	1930.9	1679.1	1645.5	1685.8	1726.1	1726.1	1625.3	1568.3	1554.8
37.5°	4765.2	2941.7	1803.3	1605.2	1581.7	1665.6	1719.4	1682.4	1524.6	1454.1	1437.3
40°	5114.4	2901.4	1679.1	1531.3	1548.1	1632.1	1662.3	1548.1	1386.9	1343.3	1329.8
42.5°	5621.5	2820.8	1568.3	1467.5	1517.9	1585.0	1585.0	1380.2	1319.7	1296.2	1292.9
45°	6252.9	2763.7	1470.9	1413.8	1474.2	1491.0	1437.3	1292.9	1249.2	1242.5	1245.9
47.5°	6561.8	2652.9	1370.1	1350.0	1393.6	1397.0	1255.9	1222.4	1185.4	1175.3	1168.6
50°	6514.8	2454.8	1239.2	1266.0	1326.5	1292.9	1145.1	1151.8	1118.3	1114.9	1098.1
52.5°	6185.7	2142.5	1108.2	1172.0	1239.2	1141.8	1054.5	1047.7	1047.7	1004.1	987.3
55°	5483.8	1726.1	950.4	1030.9	1111.5	960.4	936.9	930.2	913.4	873.1	863.0
57.5°	4342.1	1266.0	715.3	802.6	943.6	816.0	812.7	782.4	738.8	708.6	708.6
60°	2582.4	728.7	450.0	490.3	624.6	661.6	735.4	722.0	648.1	601.1	587.7
62.5°	1178.7	376.1	285.4	292.2	335.8	429.8	577.6	668.3	564.2	483.6	476.9
65°	396.3	278.7	235.1	225.0	231.7	258.6	345.9	473.5	450.0	372.8	359.3
67.5°	241.8	248.5	221.6	204.8	204.8	201.5	198.1	214.9	265.3	258.6	261.9
70°	208.2	228.4	204.8	184.7	178.0	167.9	141.0	117.5	100.7	117.5	124.3
72.5°	167.9	181.3	174.6	157.8	141.0	127.6	100.7	77.2	57.1	50.4	50.4
75°	124.3	134.3	141.0	120.9	107.5	90.7	73.9	50.4	30.2	20.1	20.1
77.5°	90.7	100.7	104.1	94.0	80.6	63.8	47.0	33.6	16.8	6.7	6.7
80°	77.2	90.7	100.7	94.0	84.0	60.4	43.7	23.5	13.4	3.4	3.4
82.5°	73.9	90.7	100.7	90.7	80.6	57.1	43.7	26.9	10.1	3.4	3.4
85°	16.8	23.5	30.2	36.9	43.7	43.7	33.6	20.1	10.1	3.4	3.4
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	3.4	3.4	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)