

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: P529984

Luminaire Tested: **GALN-SA5A-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15992 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 154
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



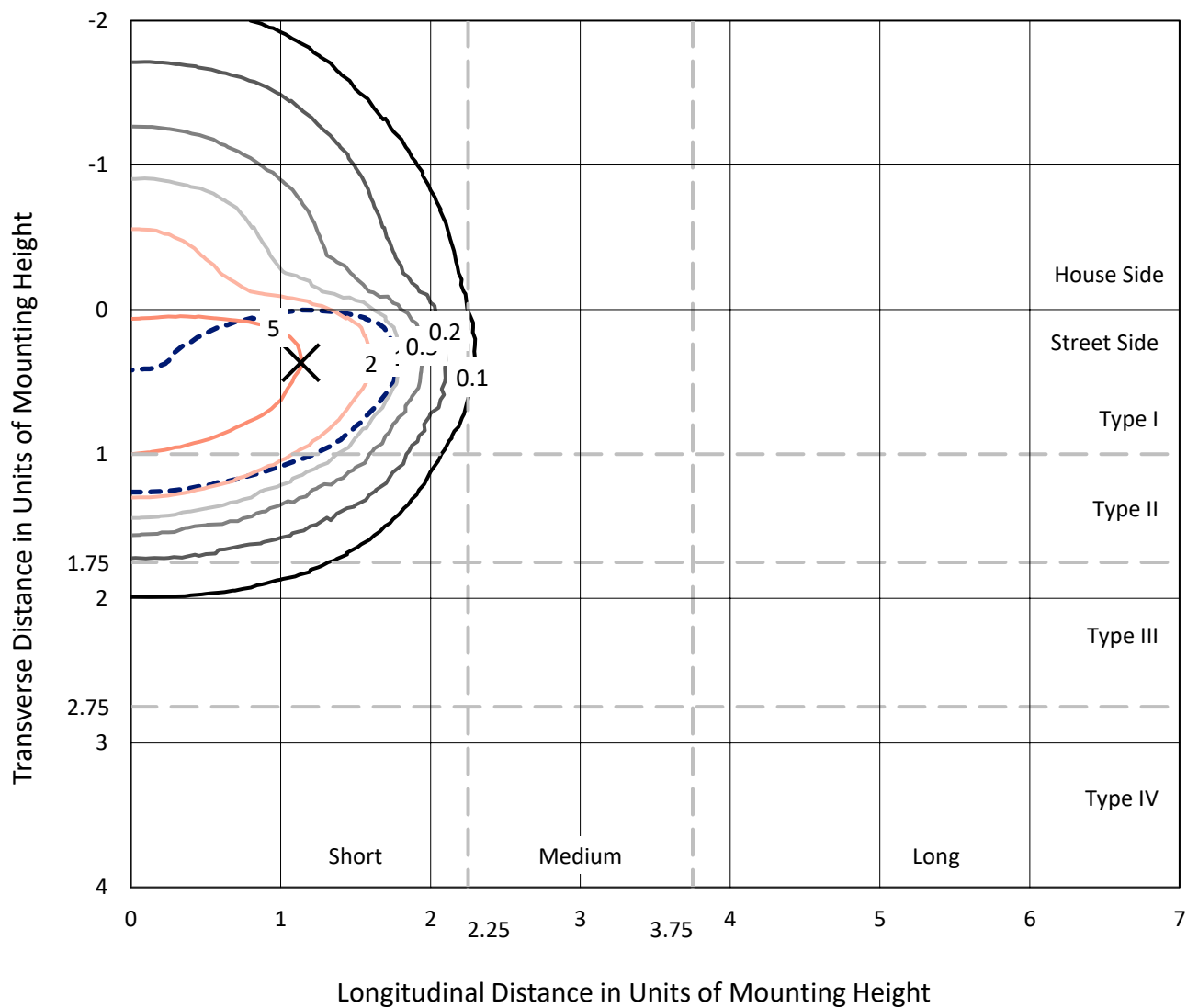
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

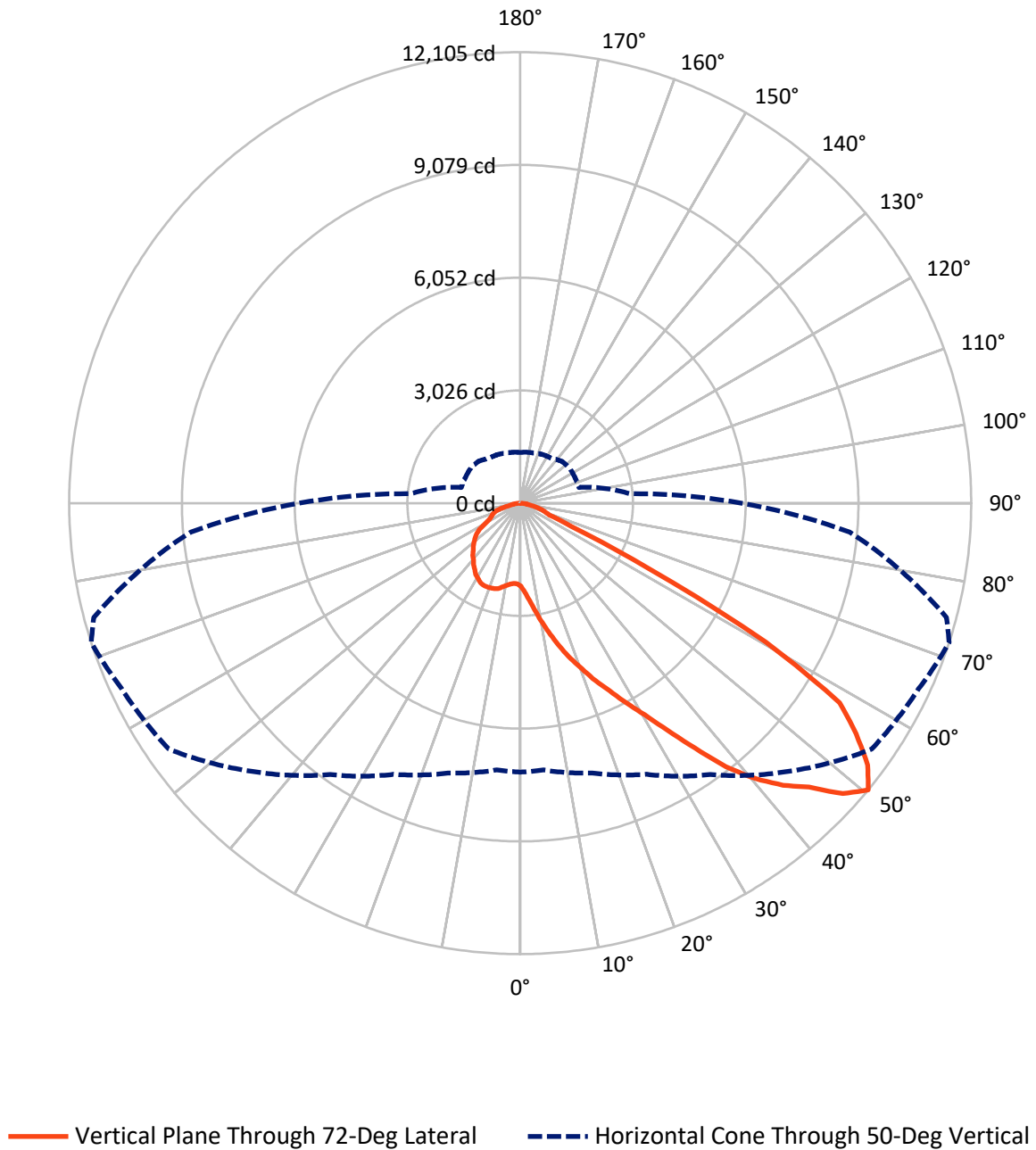
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3663.9	0.0	3663.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12328.1	0.0	12328.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	15992.0	0.0	15992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.9	1.6
10°-20°	978.9	6.1
20°-30°	1898.1	11.9
30°-40°	3144.4	19.7
40°-50°	4399.7	27.5
50°-60°	3711.7	23.2
60°-70°	1131.3	7.1
70°-80°	396.9	2.5
80°-90°	69.0	0.4
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°	15992.0	100.0
0°-180°	15992.0	100.0

Coefficient of Utilization



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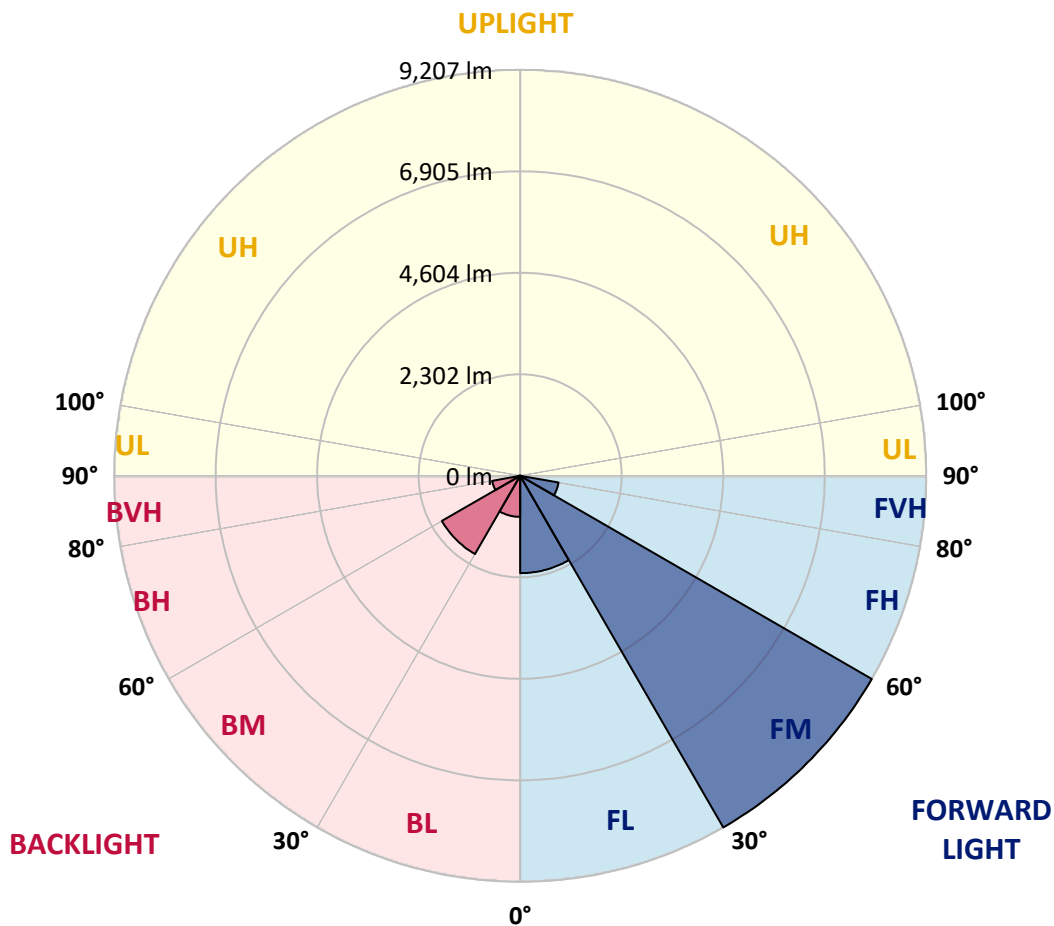
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2207.5	13.8			
FM	(30°-60°)	9207.0	57.6			
FH	(60°-80°)	882.7	5.5			G1/1800
FVH	(80°-90°)	30.9	0.2			G1/100
BL	(0°-30°)	931.4	5.8	B2/1000		
BM	(30°-60°)	2048.9	12.8	B2/2500		
BH	(60°-80°)	645.5	4.0	B2/1000		G2/1000
BVH	(80°-90°)	38.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2
2.5°	2863.4	2845.6	2792.2	2774.4	2711.0	2596.3	2556.7	2439.9	2390.5	2345.0	2291.5
5°	3621.3	3538.2	3532.3	3431.4	3284.9	3199.8	2946.5	2776.3	2620.0	2540.9	2394.4
7.5°	4104.2	4106.1	4106.1	4023.0	3906.3	3690.6	3463.0	3156.3	2920.8	2804.1	2554.7
10°	4563.3	4523.7	4501.9	4494.0	4414.8	4205.1	3961.7	3581.7	3259.2	3122.6	2675.4
12.5°	4887.8	4854.2	4903.6	4877.9	4820.5	4684.0	4454.4	4021.1	3617.4	3433.3	2869.4
15°	5042.1	5065.9	5105.5	5176.7	5151.0	5099.5	4846.2	4472.2	4003.2	3795.5	3041.5
17.5°	5279.6	5214.3	5261.8	5350.9	5422.1	5398.3	5253.9	4798.7	4385.2	4129.9	3273.0
20°	5445.8	5408.2	5432.0	5534.9	5588.3	5722.9	5647.7	5226.2	4751.3	4482.1	3546.1
22.5°	5920.8	5865.4	5788.2	5804.0	5823.8	5918.8	5936.6	5695.2	5176.7	4891.8	3805.4
25°	6506.5	6455.1	6364.0	6271.0	6213.6	6195.8	6257.2	6063.2	5584.4	5289.5	4084.4
27.5°	7151.6	7064.5	7007.2	6815.2	6660.9	6637.1	6607.4	6502.5	6067.2	5748.6	4399.0
30°	7778.9	7709.7	7632.5	7325.8	7165.5	7139.7	6993.3	7023.0	6591.6	6237.4	4755.2
32.5°	8253.8	8259.8	8083.7	7852.1	7701.7	7565.2	7511.8	7596.9	7264.4	6979.5	5153.0
35°	8637.7	8655.6	8487.4	8277.6	8115.3	8210.3	8186.6	8226.1	8067.8	7719.6	5616.0
37.5°	9011.7	8922.7	8742.6	8641.7	8556.6	8712.9	8914.8	8948.4	8978.1	8568.5	6154.3
40°	9073.1	9081.0	8976.1	9047.4	8940.5	9176.0	9645.0	9601.5	9722.2	9364.0	6738.0
42.5°	8986.0	9003.8	9045.4	9146.3	9403.6	9686.5	10383.1	10205.0	10351.4	10032.8	7306.0
45°	8843.5	8770.3	8821.8	9205.7	9650.9	10280.2	11057.9	10919.4	10871.9	10604.7	7982.7
47.5°	8162.8	8238.0	8398.3	8871.3	9540.1	10383.1	11536.8	11505.1	11647.6	11459.6	8598.2
50°	7218.9	7189.2	7497.9	8030.2	8893.0	10181.3	11511.1	11798.0	12104.7	11843.5	8873.2
52.5°	5406.3	5564.6	5829.7	6490.7	7721.5	9081.0	10949.1	11427.9	11677.3	11621.9	8651.6
55°	3417.5	3465.0	3625.3	4410.9	5519.1	7288.2	9385.8	10495.9	10941.1	11148.9	8447.8
57.5°	1660.3	1571.2	1767.1	2398.4	3188.0	4901.6	7238.7	9142.4	10110.0	10486.0	8004.5
60°	866.7	900.4	977.6	1203.1	1648.4	2544.8	4511.8	6092.9	7571.1	8149.0	6067.2
62.5°	718.3	730.2	781.7	894.4	1096.3	1464.4	2303.4	2970.3	3860.8	4381.2	3451.1
65°	609.5	615.4	670.8	746.0	874.7	1031.0	1185.3	1240.7	1502.0	1541.5	1226.9
67.5°	508.6	514.5	573.9	645.1	728.2	769.8	809.4	805.4	835.1	823.2	821.2
70°	391.8	397.8	459.1	534.3	575.8	552.1	674.8	702.5	714.4	724.3	740.1
72.5°	283.0	294.9	342.3	395.8	374.0	429.4	556.1	597.6	613.4	619.4	639.2
75°	205.8	209.8	221.6	205.8	237.5	298.8	391.8	443.3	463.1	469.0	498.7
77.5°	91.0	93.0	95.0	118.7	152.4	186.0	233.5	275.1	302.8	310.7	318.6
80°	47.5	49.5	61.3	81.1	108.8	136.5	170.2	193.9	211.7	213.7	221.6
82.5°	29.7	31.7	43.5	57.4	77.2	100.9	124.7	144.5	158.3	160.3	162.3
85°	13.9	17.8	25.7	35.6	51.5	65.3	67.3	57.4	61.3	63.3	59.4
87.5°	4.0	5.9	7.9	5.9	7.9	7.9	9.9	11.9	11.9	11.9	13.9
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°	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2
2.5°	2261.8	2244.0	2174.8	2149.0	2081.8	2093.6	2058.0	2056.0	2048.1	2046.1	2044.2
5°	2317.3	2261.8	2178.7	2115.4	2077.8	2073.9	2048.1	2048.1	2056.0	2062.0	2048.1
7.5°	2408.3	2345.0	2204.5	2145.1	2111.4	2105.5	2087.7	2073.9	2091.7	2085.7	2069.9
10°	2513.2	2402.3	2253.9	2202.5	2147.1	2133.2	2133.2	2139.2	2109.5	2119.4	2103.5
12.5°	2629.9	2481.5	2317.3	2257.9	2192.6	2184.7	2180.7	2137.2	2153.0	2145.1	2105.5
15°	2778.3	2572.5	2398.4	2297.5	2242.1	2206.4	2155.0	2147.1	2137.2	2117.4	2099.6
17.5°	2938.6	2671.5	2436.0	2309.3	2226.2	2200.5	2160.9	2119.4	2089.7	2093.6	2079.8
20°	3075.2	2762.5	2449.8	2321.2	2214.3	2164.9	2103.5	2077.8	2046.1	2044.2	2042.2
22.5°	3237.4	2885.2	2469.6	2289.5	2178.7	2127.3	2085.7	2040.2	2018.4	1990.7	2004.6
25°	3431.4	2932.7	2473.6	2271.7	2153.0	2062.0	2040.2	1990.7	1982.8	1943.2	1951.2
27.5°	3571.9	2958.4	2441.9	2216.3	2093.6	2024.4	1984.8	1949.2	1935.3	1905.6	1897.7
30°	3759.8	2998.0	2374.6	2147.1	2034.3	1957.1	1933.4	1925.4	1885.9	1854.2	1850.2
32.5°	3973.6	3023.7	2331.1	2075.8	1972.9	1913.6	1925.4	1887.8	1838.4	1810.7	1802.7
35°	4143.7	3033.6	2222.3	1994.7	1931.4	1893.8	1879.9	1872.0	1800.8	1775.0	1755.3
37.5°	4403.0	3011.8	2131.2	1937.3	1885.9	1872.0	1860.1	1806.7	1725.6	1688.0	1660.3
40°	4705.7	3005.9	2014.5	1856.2	1842.3	1858.2	1822.5	1739.4	1626.6	1585.1	1565.3
42.5°	4996.6	3047.5	1941.3	1812.6	1794.8	1800.8	1751.3	1626.6	1571.2	1547.5	1515.8
45°	5483.4	3134.5	1820.6	1745.4	1737.4	1733.5	1674.1	1543.5	1511.9	1482.2	1476.2
47.5°	5922.7	3077.1	1743.4	1676.1	1684.0	1662.2	1535.6	1494.0	1458.4	1428.7	1418.8
50°	5948.5	2940.6	1634.5	1622.7	1624.6	1587.0	1466.3	1438.6	1393.1	1373.3	1359.5
52.5°	5813.9	2717.0	1533.6	1537.6	1543.5	1482.2	1381.2	1361.5	1323.9	1296.2	1288.2
55°	5435.9	2368.7	1434.7	1450.5	1466.3	1349.6	1317.9	1268.5	1238.8	1199.2	1201.2
57.5°	4788.9	1907.6	1296.2	1321.9	1355.5	1226.9	1203.1	1141.8	1098.3	1066.6	1062.7
60°	3209.7	1357.5	1088.4	1098.3	1173.5	1122.0	1120.0	1058.7	999.3	971.6	955.8
62.5°	1893.8	1036.9	940.0	930.1	928.1	957.8	1007.2	985.5	908.3	854.9	870.7
65°	991.4	896.4	874.7	841.0	821.2	813.3	850.9	860.8	809.4	752.0	748.0
67.5°	833.1	833.1	815.3	803.4	775.7	742.1	718.3	686.7	678.8	662.9	643.1
70°	757.9	777.7	771.8	744.1	720.3	682.7	621.4	569.9	520.4	502.6	514.5
72.5°	660.9	680.7	680.7	666.9	635.2	577.8	518.5	459.1	417.5	385.9	381.9
75°	508.6	518.5	542.2	526.4	484.8	449.2	387.9	326.5	286.9	257.3	251.3
77.5°	324.5	340.4	340.4	338.4	308.7	275.1	235.5	191.9	162.3	140.5	134.6
80°	215.7	225.6	233.5	225.6	205.8	180.1	150.4	120.7	98.9	81.1	77.2
82.5°	158.3	170.2	176.1	168.2	148.4	128.6	106.9	85.1	63.3	49.5	45.5
85°	61.3	63.3	71.2	85.1	83.1	81.1	65.3	47.5	35.6	25.7	23.7
87.5°	15.8	13.9	15.8	15.8	13.9	11.9	11.9	11.9	11.9	5.9	7.9
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)