

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: P528648

Luminaire Tested: **GALN-SA3D-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17826 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

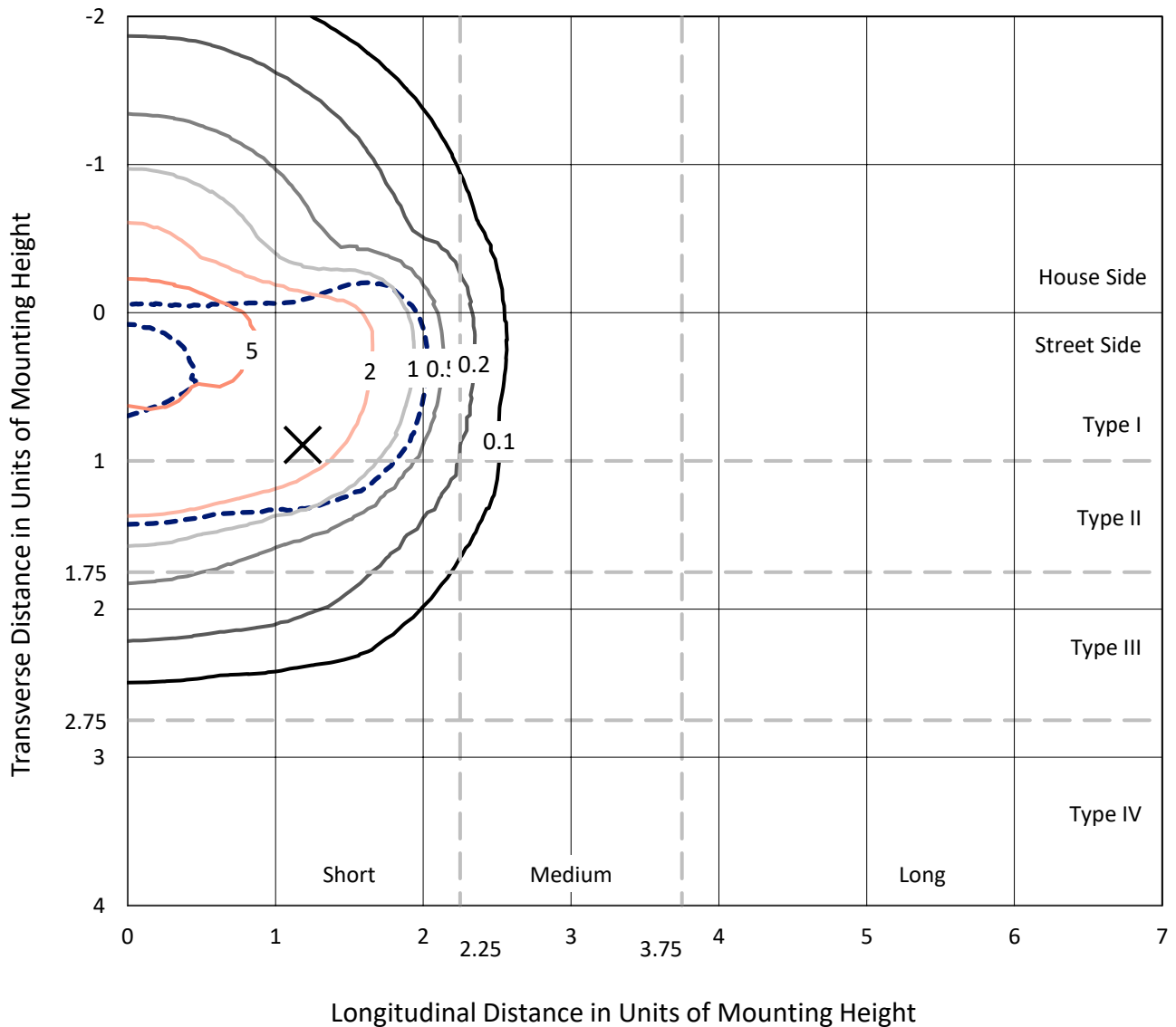
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

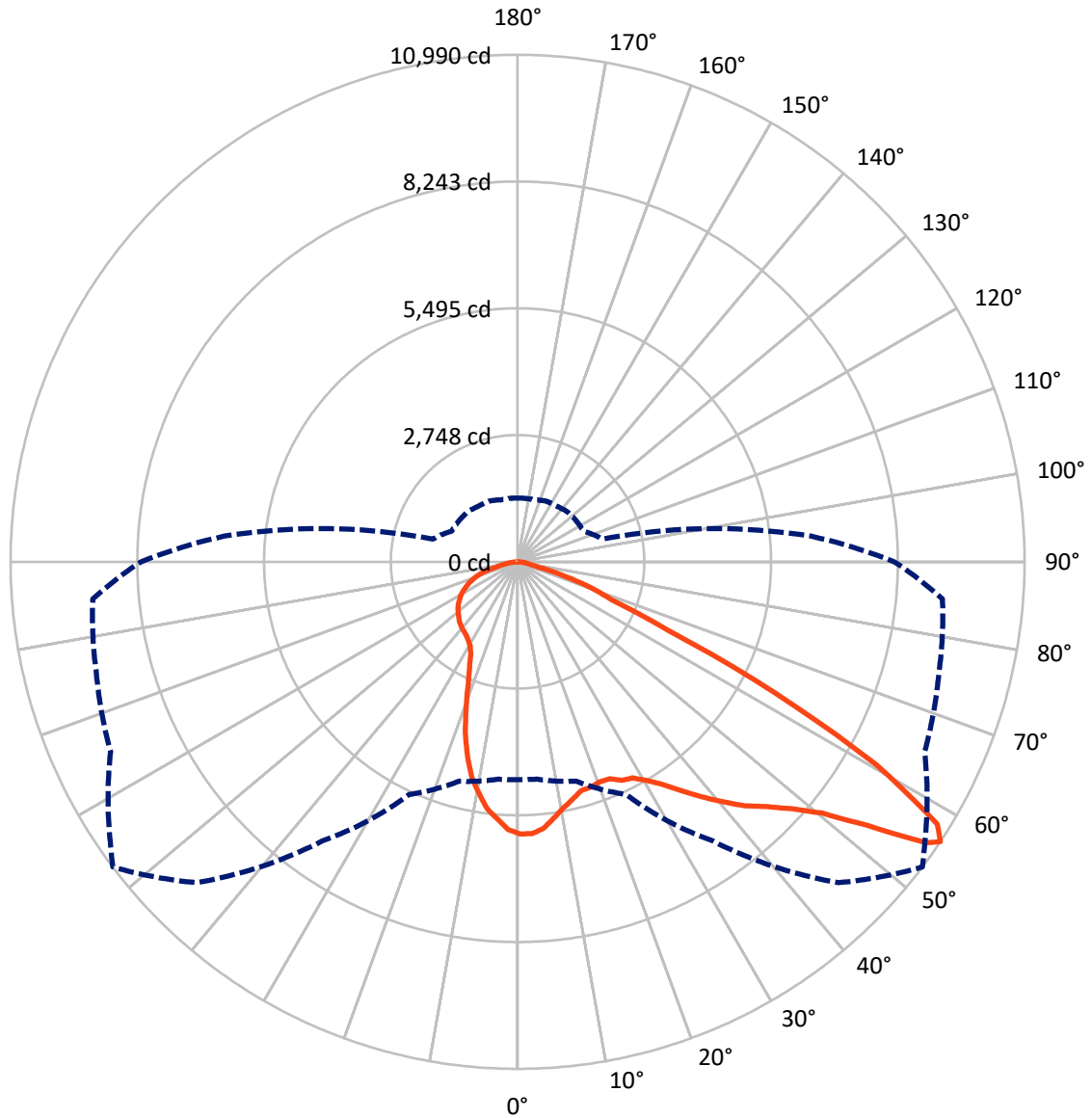
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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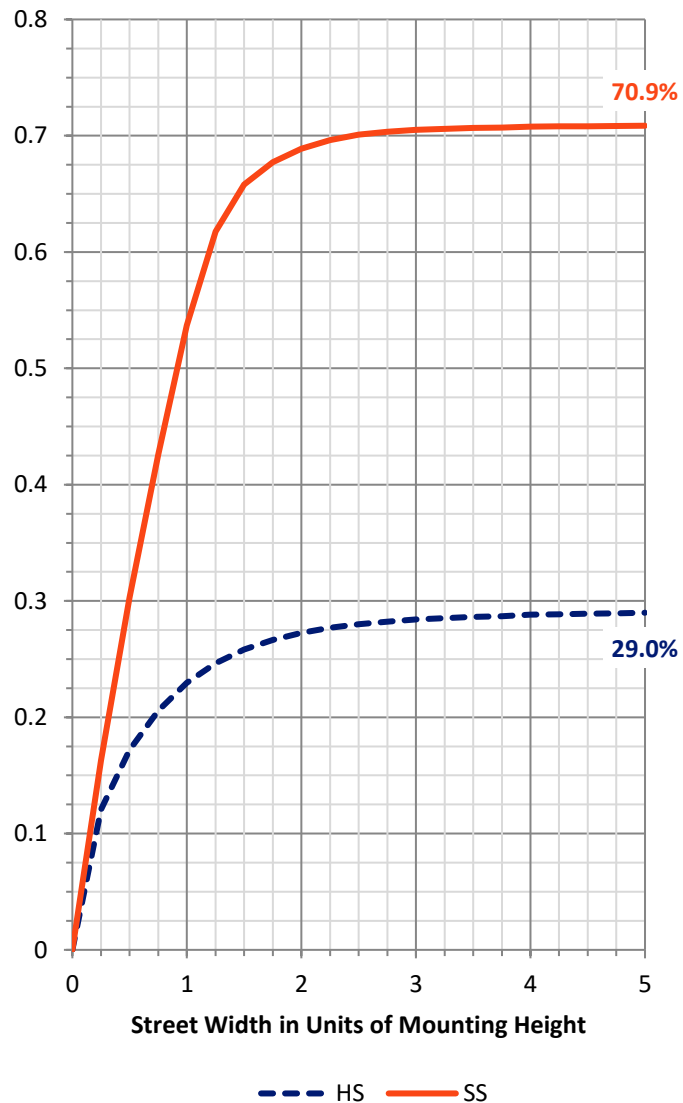
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5202.0	0.0	5202.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	12624.0	0.0	12624.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	17826.0	0.0	17826.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.1	2.9
10°-20°	1304.0	7.3
20°-30°	1922.8	10.8
30°-40°	2747.4	15.4
40°-50°	3781.4	21.2
50°-60°	4468.6	25.1
60°-70°	2381.4	13.4
70°-80°	604.2	3.4
80°-90°	94.2	0.5
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°	17826.0	100.0
0°-180°	17826.0	100.0

Coefficient of Utilization

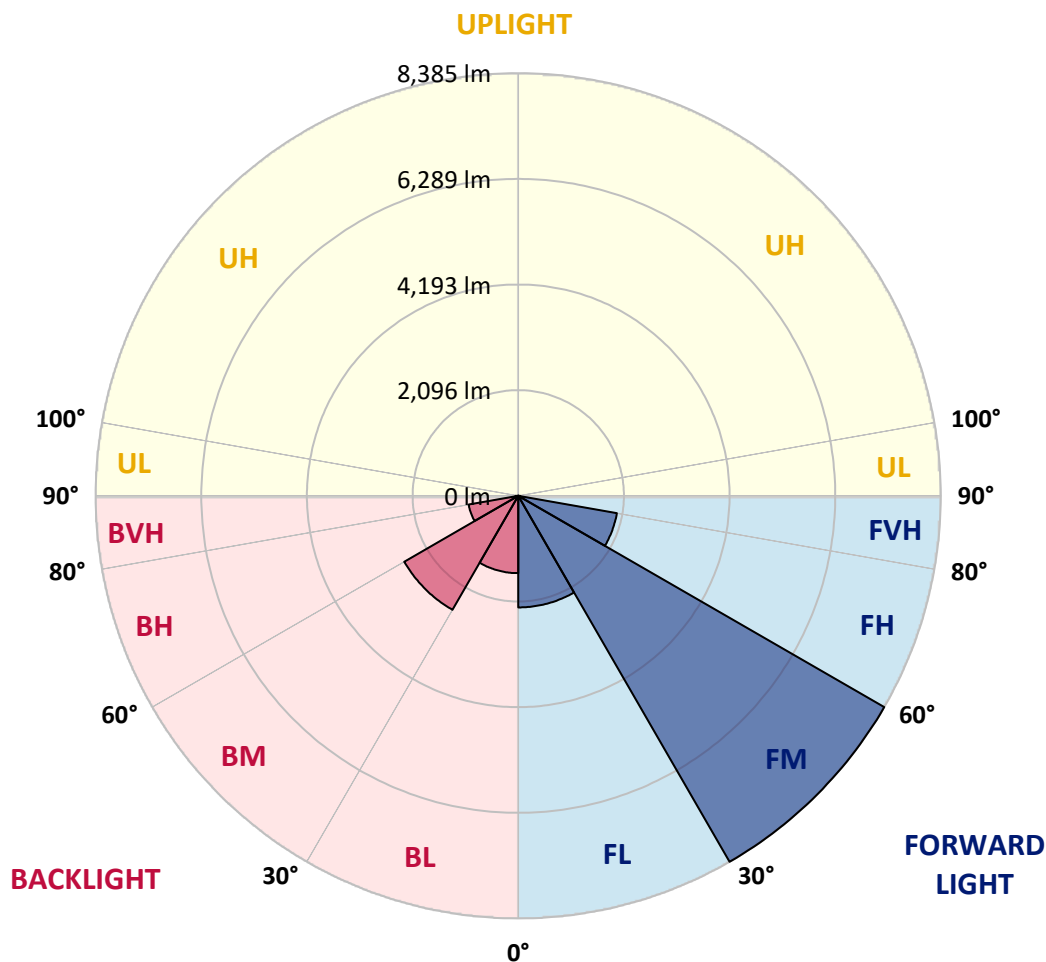


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2214.6	12.4			
FM (30°-60°)	8385.0	47.0			
FH (60°-80°)	1986.5	11.1			G2/5000
FVH (80°-90°)	37.9	0.2			G1/100
BL (0°-30°)	1534.3	8.6	B3/2500		
BM (30°-60°)	2612.3	14.7	B3/5000		
BH (60°-80°)	999.1	5.6	B2/1000		G2/1000
BVH (80°-90°)	56.3	0.3			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°	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5
2.5°	5824.4	5774.1	5803.8	5792.4	5886.1	5913.6	5899.8	5911.3	5963.9	5938.7	5886.1
5°	5442.5	5513.4	5527.1	5561.4	5616.3	5723.7	5808.4	5831.2	5856.4	5973.0	5961.6
7.5°	5094.9	5142.9	5117.8	5218.4	5337.3	5511.1	5614.0	5632.3	5863.2	5927.3	5975.3
10°	4875.4	4827.3	4941.7	4969.1	5104.0	5303.0	5426.5	5501.9	5712.3	5966.1	5995.9
12.5°	4671.8	4655.8	4724.4	4802.2	4953.1	5158.9	5284.7	5314.4	5639.1	5906.7	6046.2
15°	4520.9	4502.6	4571.2	4628.4	4804.5	4987.4	5147.5	5232.1	5559.1	5872.4	6002.7
17.5°	4402.0	4399.7	4438.6	4541.5	4722.2	4875.4	5133.8	5138.3	5517.9	5925.0	6039.3
20°	4395.1	4392.9	4399.7	4514.1	4678.7	4866.2	5090.3	5131.5	5517.9	5888.4	6041.6
22.5°	4452.3	4415.7	4456.9	4530.1	4649.0	4882.2	5106.3	5197.8	5650.6	6069.1	6144.5
25°	4543.8	4552.9	4575.8	4601.0	4669.6	4918.8	5248.1	5323.6	5806.1	6224.5	6286.3
27.5°	4710.7	4706.1	4715.3	4729.0	4788.5	4953.1	5305.3	5499.6	6130.8	6501.2	6439.5
30°	4955.4	4939.4	4976.0	5024.0	4969.1	5062.9	5495.1	5641.4	6432.6	6780.2	6611.0
32.5°	5177.2	5236.7	5305.3	5325.9	5259.5	5277.8	5746.6	5895.3	6684.2	7123.2	6821.4
35°	5453.9	5501.9	5593.4	5657.4	5646.0	5591.1	6089.6	6286.3	7047.8	7374.8	7043.2
37.5°	5723.7	5780.9	5931.8	6121.6	6016.5	5991.3	6455.5	6617.9	7159.8	7509.7	7205.6
40°	6158.2	6155.9	6416.6	6515.0	6608.7	6565.3	6835.1	6890.0	7219.3	7480.0	7210.1
42.5°	6668.2	6636.2	6901.4	7054.6	7175.8	7180.4	7230.7	7212.4	7246.7	7329.1	7162.1
45°	7153.0	7221.6	7489.1	7763.5	7884.7	7898.5	7564.6	7530.3	7294.8	7285.6	7070.6
47.5°	7745.2	7761.2	7980.8	8342.1	8623.4	8527.3	7996.8	7921.3	7505.1	7576.0	7223.9
50°	7779.5	7898.5	8095.1	8520.5	9384.8	9359.7	8557.0	8415.3	7843.6	7987.6	7651.5
52.5°	7061.5	7034.1	7267.3	7962.5	9327.7	10187.5	9485.5	9147.0	8570.8	8461.0	8344.4
55°	5380.7	5444.8	5650.6	6352.6	8099.7	10198.9	10750.0	10473.3	9348.3	9160.7	9025.8
56°	4719.9	4729.0	4923.4	5563.7	7390.8	9835.3	10990.1	10766.0	9734.7	9448.9	9243.1
57.5°	3912.6	3860.0	3960.7	4310.5	6238.3	9067.0	10727.2	10946.7	10187.5	9759.9	9474.0
60°	3080.3	3068.8	3027.7	3091.7	3942.4	6830.5	8929.8	9423.7	10141.8	9467.2	9073.8
62.5°	2515.4	2458.3	2540.6	2632.1	2739.5	4237.4	6274.9	6565.3	8051.7	7557.7	6816.8
65°	1950.6	1923.2	2026.1	2323.3	2387.4	2691.5	3574.2	3798.3	4754.2	4669.6	4111.6
67.5°	1342.3	1346.9	1436.1	1888.9	2213.6	2186.1	2188.4	2305.0	2481.1	1843.1	1605.3
70°	850.7	848.4	896.4	1216.6	1781.4	1799.7	1708.2	1673.9	1587.0	960.4	1017.6
72.5°	546.5	530.5	555.7	672.3	921.6	1065.6	1097.6	1118.2	919.3	754.6	818.7
75°	308.7	292.7	283.6	313.3	363.6	420.8	461.9	475.6	532.8	571.7	606.0
77.5°	93.8	84.6	102.9	137.2	180.7	242.4	295.0	304.1	359.0	404.8	439.1
80°	41.2	45.7	64.0	91.5	128.1	171.5	208.1	221.8	258.4	292.7	301.9
82.5°	25.2	27.4	43.4	61.7	89.2	121.2	148.6	153.2	189.8	217.2	224.1
85°	9.1	11.4	22.9	36.6	57.2	77.7	77.7	84.6	77.7	77.7	84.6
87.5°	0.0	0.0	2.3	4.6	4.6	6.9	9.1	9.1	11.4	13.7	16.0
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°	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5
2.5°	5913.6	5902.1	5883.8	5817.5	5810.6	5790.1	5675.7	5657.4	5675.7	5620.8	5625.4
5°	5902.1	5936.4	5799.2	5732.9	5609.4	5520.2	5417.3	5364.7	5271.0	5211.5	5277.8
7.5°	5952.4	5938.7	5767.2	5623.1	5437.9	5211.5	5030.9	4928.0	4763.3	4717.6	4751.9
10°	5934.1	5861.0	5659.7	5469.9	5120.0	4921.1	4628.4	4344.8	4189.3	4109.3	4097.9
12.5°	5909.0	5888.4	5552.2	5225.2	4857.1	4438.6	4027.0	3759.4	3505.6	3395.8	3411.8
15°	5938.7	5764.9	5351.0	4937.1	4447.7	3898.9	3455.3	3110.0	2933.9	2863.0	2863.0
17.5°	5925.0	5705.5	5255.0	4614.7	3995.0	3345.5	2858.4	2650.4	2577.2	2577.2	2597.8
20°	5931.8	5744.3	5060.6	4292.2	3459.9	2817.3	2462.8	2387.4	2419.4	2430.8	2442.3
22.5°	5970.7	5616.3	4870.8	3937.8	2963.6	2410.2	2236.4	2238.7	2295.9	2357.6	2346.2
25°	6018.7	5566.0	4639.8	3585.6	2584.0	2211.3	2156.4	2149.6	2193.0	2225.0	2229.6
27.5°	5977.6	5479.1	4404.3	3146.6	2273.0	2078.7	2067.2	2071.8	2085.5	2149.6	2129.0
30°	6112.5	5504.2	4109.3	2778.4	2101.5	2035.2	2021.5	2014.6	2035.2	2053.5	2037.5
32.5°	6279.4	5415.0	3889.8	2424.0	2016.9	2003.2	1975.8	1966.6	1978.0	1959.7	1968.9
35°	6352.6	5399.0	3603.9	2170.1	1950.6	1939.2	1923.2	1920.9	1923.2	1907.2	1893.4
37.5°	6393.8	5474.5	3276.9	2053.5	1909.4	1920.9	1884.3	1879.7	1838.6	1847.7	1854.6
40°	6464.7	5357.9	3011.7	1941.5	1884.3	1861.4	1829.4	1822.5	1795.1	1779.1	1795.1
42.5°	6361.8	5323.6	2751.0	1893.4	1847.7	1822.5	1799.7	1760.8	1751.7	1737.9	1728.8
45°	6279.4	5126.9	2517.7	1834.0	1804.3	1790.5	1747.1	1705.9	1671.6	1685.3	1664.8
47.5°	6341.2	5058.3	2286.8	1783.7	1744.8	1728.8	1685.3	1653.3	1619.0	1603.0	1598.4
50°	6588.1	5186.4	2092.4	1747.1	1694.5	1685.3	1628.2	1591.6	1559.6	1548.1	1552.7
52.5°	7178.1	5536.2	1959.7	1671.6	1646.5	1605.3	1573.3	1527.6	1507.0	1470.4	1493.3
55°	7925.9	6105.6	1925.4	1600.7	1587.0	1550.4	1507.0	1472.7	1433.8	1404.1	1397.2
56°	8166.0	6377.8	1898.0	1573.3	1550.4	1529.8	1472.7	1452.1	1390.3	1383.5	1378.9
57.5°	8360.4	6617.9	1902.6	1520.7	1497.8	1479.5	1445.2	1394.9	1353.8	1328.6	1340.0
60°	7921.3	6194.8	1815.7	1440.7	1436.1	1401.8	1353.8	1330.9	1280.6	1250.9	1244.0
62.5°	5888.4	4205.3	1472.7	1337.8	1335.5	1298.9	1244.0	1218.8	1209.7	1168.5	1168.5
65°	3391.3	2636.6	1273.7	1253.1	1234.8	1198.3	1143.4	1122.8	1099.9	1086.2	1074.8
67.5°	1447.5	1367.5	1157.1	1154.8	1134.2	1088.5	1033.6	1001.6	971.9	944.4	958.2
70°	1049.6	1065.6	1045.0	1033.6	1008.5	951.3	903.3	864.4	818.7	800.4	814.1
72.5°	832.4	866.7	896.4	898.7	869.0	802.7	750.1	697.5	647.2	622.0	633.4
75°	631.1	654.0	683.7	690.6	647.2	601.4	551.1	496.2	457.4	427.6	432.2
77.5°	455.1	450.5	477.9	473.4	452.8	420.8	375.0	324.7	281.3	253.8	256.1
80°	311.0	317.9	333.9	331.6	306.4	285.8	251.5	210.4	178.4	155.5	150.9
82.5°	217.2	228.7	242.4	231.0	210.4	189.8	164.6	134.9	109.8	91.5	86.9
85°	77.7	89.2	102.9	109.8	116.6	112.1	93.8	75.5	54.9	45.7	43.4
87.5°	16.0	18.3	20.6	20.6	20.6	18.3	16.0	16.0	13.7	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

(END OF REPORT)