

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: P533339

Luminaire Tested: **GALN-SA8D-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33973 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

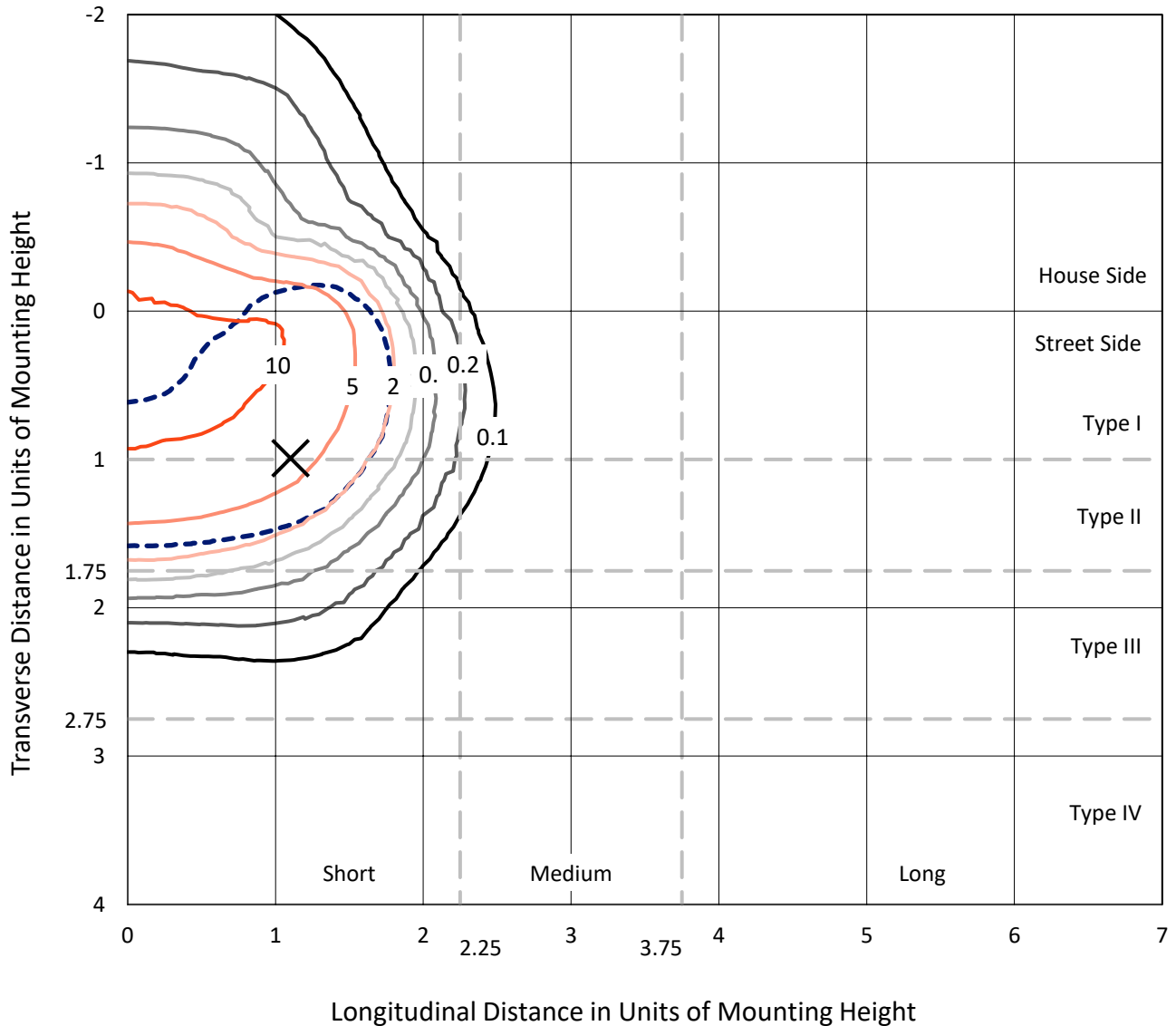
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

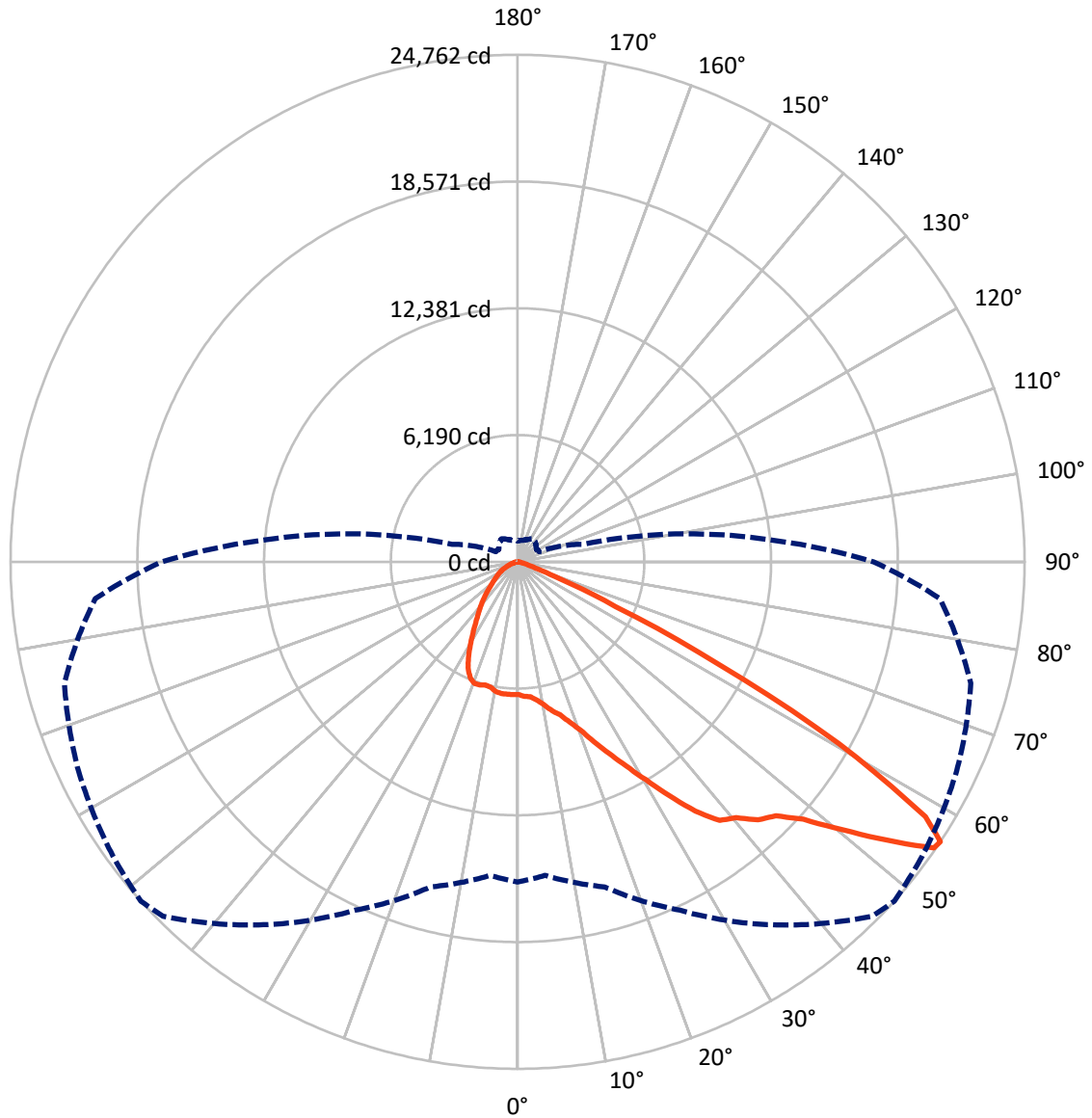
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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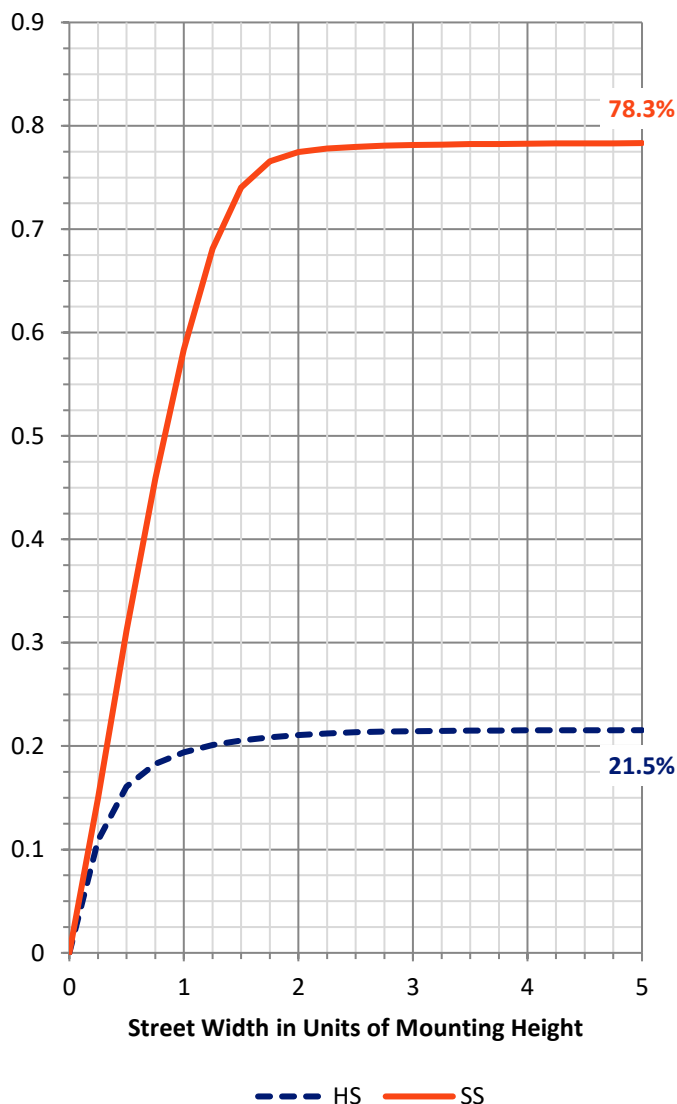
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7388.5	0.0	7388.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	26584.5	0.0	26584.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	33973.0	0.0	33973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.1	1.9
10°-20°	2020.0	5.9
20°-30°	3663.9	10.8
30°-40°	5755.3	16.9
40°-50°	8396.0	24.7
50°-60°	10115.5	29.8
60°-70°	2961.7	8.7
70°-80°	375.7	1.1
80°-90°	52.7	0.2
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°	33973.0	100.0
0°-180°	33973.0	100.0

Coefficient of Utilization



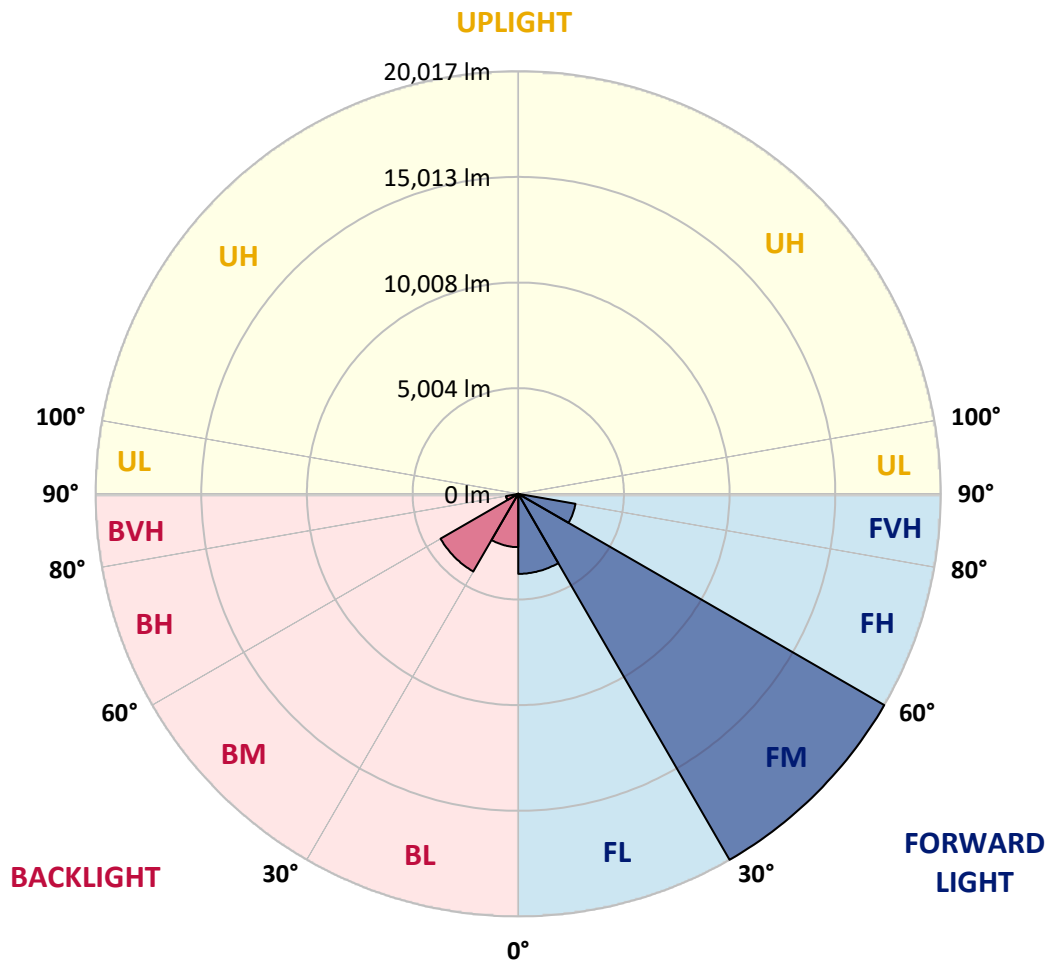
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3790.7	11.2			
FM (30°-60°)	20017.0	58.9			
FH (60°-80°)	2750.4	8.1			G2/5000
FVH (80°-90°)	26.5	0.1			G1/100
BL (0°-30°)	2525.4	7.4	B4/5000		
BM (30°-60°)	4249.8	12.5	B3/5000		
BH (60°-80°)	587.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	26.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	6488.9	6488.9	6488.9	6488.9	6488.9	6488.9	6488.9	6488.9	6488.9	6488.9	6488.9
2.5°	6606.4	6575.5	6575.5	6526.0	6581.6	6556.9	6575.5	6513.6	6575.5	6482.7	6556.9
5°	6637.3	6643.5	6618.8	6649.7	6649.7	6686.8	6624.9	6680.6	6711.5	6643.5	6612.6
7.5°	6798.1	6810.5	6804.3	6779.6	6829.1	6822.9	6816.7	6773.4	6785.8	6761.0	6723.9
10°	7113.6	7107.4	7138.4	7076.5	7039.4	7082.7	7095.1	7027.0	6977.5	6959.0	6841.4
12.5°	7571.4	7497.1	7453.8	7392.0	7410.5	7348.7	7460.0	7342.5	7317.7	7206.4	7088.9
15°	7942.5	7930.1	7936.3	7837.4	7726.0	7750.8	7750.8	7688.9	7651.8	7515.7	7348.7
17.5°	8703.4	8443.6	8499.2	8375.5	8282.7	8276.5	8220.9	8233.2	8134.3	7849.7	7596.1
20°	9297.2	9185.8	9099.2	8888.9	8746.7	8790.0	8765.2	8703.4	8672.4	8301.3	7942.5
22.5°	9829.2	9866.3	9724.0	9668.3	9470.4	9488.9	9538.4	9482.8	9247.7	8864.2	8332.2
25°	10577.6	10534.3	10342.6	10274.5	10089.0	10157.0	10348.8	10305.5	10157.0	9464.2	8635.3
27.5°	11462.2	11313.7	11350.9	11041.6	10862.2	11053.9	11282.8	11499.3	11078.7	10169.4	8994.1
30°	12087.0	11932.3	11920.0	11907.6	11864.3	12087.0	12353.0	12550.9	12210.7	10874.6	9587.9
32.5°	12396.3	12433.4	12538.5	12501.4	12878.7	13336.5	13614.8	13899.4	13472.6	12025.1	10373.5
35°	13219.0	12983.9	13219.0	13243.7	13633.4	14604.6	14957.2	15637.6	15532.4	13652.0	11332.3
37.5°	13701.4	13682.9	13713.8	13948.9	14326.2	15526.2	16027.3	16553.1	16355.1	14629.3	12526.2
40°	14499.4	14548.9	14542.7	14722.1	15136.5	16219.1	16423.2	16850.0	16868.6	15984.0	14282.9
42.5°	15779.9	15581.9	15452.0	15637.6	16219.1	16819.1	17227.3	17140.7	17753.1	17629.4	16540.7
45°	16930.4	17047.9	16856.2	17165.5	17375.8	17697.4	17685.1	17870.6	18650.1	19237.7	18241.8
47.5°	18006.7	18081.0	18173.8	18384.1	18841.8	18891.3	18786.1	18705.7	19782.0	20388.3	19559.4
50°	18650.1	18718.1	19151.1	19528.4	20382.1	20493.4	20555.3	20351.1	21081.1	21149.1	20802.7
52.5°	18476.9	18551.1	19157.3	20400.6	21761.5	22782.1	22596.6	22250.2	22206.9	22472.9	21953.2
55°	16942.8	16874.7	17709.8	19646.0	22194.5	24644.1	24668.8	24303.8	23604.8	23425.5	21780.0
56°	15637.6	15371.6	16435.6	18773.8	21637.8	24483.2	24761.6	24371.9	23716.2	22912.0	20709.9
57.5°	12810.7	13064.3	14122.1	16058.2	19714.0	23326.5	23487.3	23394.5	22899.7	21551.2	18223.2
60°	7064.1	7509.5	8443.6	10812.7	14035.5	17901.6	18031.5	18786.1	18878.9	16503.6	12538.5
62.5°	3000.1	2950.6	3921.8	5666.2	7992.0	10806.5	11047.8	11821.0	11963.3	9513.7	6290.9
65°	1218.6	1286.6	1775.3	2851.6	4224.9	4923.9	5264.1	5517.7	5987.8	3928.0	2319.7
67.5°	804.1	798.0	1045.4	1626.9	2276.4	2195.9	2195.9	2319.7	2146.5	1602.1	1002.1
70°	575.3	593.8	748.5	1125.8	1416.5	1051.6	1008.3	965.0	1094.9	1057.8	810.3
72.5°	377.3	402.1	501.0	674.2	736.1	575.3	575.3	692.8	903.1	853.6	661.9
75°	247.4	253.6	309.3	389.7	365.0	296.9	327.8	463.9	655.7	630.9	470.1
77.5°	167.0	173.2	210.3	253.6	204.1	167.0	179.4	235.1	321.7	321.7	247.4
80°	61.9	68.0	86.6	80.4	92.8	117.5	129.9	160.8	191.8	191.8	167.0
82.5°	0.0	6.2	18.6	43.3	68.0	92.8	105.2	123.7	142.3	160.8	154.6
85°	0.0	6.2	18.6	30.9	49.5	55.7	61.9	43.3	37.1	37.1	30.9
87.5°	0.0	0.0	6.2	6.2	6.2	6.2	6.2	6.2	12.4	6.2	6.2
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°	6488.9	6488.9	6488.9	6488.9	6488.9	6488.9	6488.9	6488.9	6488.9	6488.9	6488.9
2.5°	6488.9	6482.7	6482.7	6464.1	6501.2	6482.7	6495.0	6488.9	6408.4	6470.3	6427.0
5°	6556.9	6600.2	6532.2	6519.8	6470.3	6488.9	6488.9	6427.0	6482.7	6476.5	6464.1
7.5°	6730.1	6655.9	6581.6	6507.4	6495.0	6476.5	6408.4	6383.7	6427.0	6377.5	6451.7
10°	6804.3	6816.7	6705.4	6606.4	6513.6	6383.7	6290.9	6235.2	6167.2	6241.4	6284.7
12.5°	7144.5	7020.8	6829.1	6674.4	6359.0	6229.1	6136.3	6111.5	6229.1	6253.8	6210.5
15°	7262.1	7243.5	6996.1	6649.7	6321.8	6167.2	6185.8	6136.3	6148.6	6086.8	6099.2
17.5°	7503.3	7293.0	7002.3	6569.3	6315.7	6278.5	6167.2	5969.3	5857.9	5808.4	5851.7
20°	7769.3	7565.2	7144.5	6600.2	6371.3	6272.4	5907.4	5666.2	5437.3	5313.6	5319.7
22.5°	8004.4	7750.8	7082.7	6612.6	6420.8	6012.6	5573.4	5097.1	4812.5	4620.8	4626.9
25°	8288.9	7930.1	7107.4	6637.3	6290.9	5598.1	4967.2	4503.2	4163.0	4033.1	4076.4
27.5°	8449.7	8041.5	7243.5	6693.0	5950.7	5010.5	4330.0	3897.0	3699.1	3637.2	3631.0
30°	8932.2	8288.9	7410.5	6581.6	5381.6	4379.5	3748.6	3482.6	3290.8	3235.2	3247.5
32.5°	9649.8	8740.5	7627.0	6290.9	4800.1	3816.6	3371.2	3173.3	2993.9	2888.7	2876.4
35°	10249.8	9513.7	7855.9	5839.4	4125.9	3383.6	3105.2	2857.8	2585.6	2468.1	2437.2
37.5°	11394.2	10385.9	7806.4	5158.9	3482.6	3061.9	2820.7	2517.6	2282.5	2121.7	2103.2
40°	12915.9	11406.5	7565.2	4330.0	3006.3	2777.4	2517.6	2226.9	1936.1	1800.1	1787.7
42.5°	14765.4	12656.1	7126.0	3488.8	2530.0	2492.9	2257.8	1923.8	1664.0	1565.0	1571.2
45°	16268.5	13726.2	6680.6	2802.1	2177.4	2214.5	2010.4	1694.9	1515.5	1435.1	1435.1
47.5°	17604.7	14449.9	6198.1	2313.5	1849.5	1936.1	1756.8	1571.2	1416.5	1354.7	1342.3
50°	18891.3	15186.0	5715.6	1874.3	1577.4	1664.0	1645.4	1497.0	1373.2	1299.0	1305.2
52.5°	19695.4	15303.6	5103.2	1534.1	1379.4	1478.4	1540.3	1404.2	1268.1	1224.8	1212.4
55°	18711.9	13788.0	3958.9	1261.9	1169.1	1299.0	1416.5	1261.9	1156.7	1082.5	1076.3
56°	17388.2	12328.2	3309.4	1162.9	1107.3	1249.5	1373.2	1206.2	1088.7	1045.4	1014.5
57.5°	14722.1	10089.0	2443.4	1033.0	1026.8	1162.9	1305.2	1150.6	1014.5	977.3	977.3
60°	9179.7	5678.5	1478.4	866.0	890.7	1033.0	1175.3	1026.8	903.1	903.1	921.7
62.5°	4181.6	2363.0	896.9	736.1	767.0	890.7	1045.4	927.9	859.8	927.9	940.2
65°	1422.7	1020.6	649.5	587.6	606.2	736.1	896.9	940.2	934.0	977.3	1002.1
67.5°	798.0	655.7	544.3	488.7	476.3	544.3	736.1	940.2	903.1	884.6	896.9
70°	674.2	556.7	482.5	433.0	414.4	439.2	569.1	711.4	637.1	618.6	606.2
72.5°	544.3	463.9	420.6	389.7	334.0	284.5	259.8	272.2	303.1	321.7	352.6
75°	383.5	352.6	352.6	315.5	241.2	179.4	142.3	117.5	80.4	55.7	61.9
77.5°	216.5	216.5	222.7	191.8	154.6	117.5	86.6	61.9	30.9	12.4	6.2
80°	148.5	160.8	173.2	154.6	129.9	105.2	74.2	43.3	18.6	0.0	0.0
82.5°	148.5	167.0	179.4	154.6	129.9	99.0	74.2	43.3	18.6	6.2	0.0
85°	30.9	37.1	43.3	49.5	74.2	74.2	55.7	37.1	18.6	6.2	0.0
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	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)