

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: P533338

Luminaire Tested: **GALN-SA8D-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533338
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-SA8D-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA 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: 49992 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

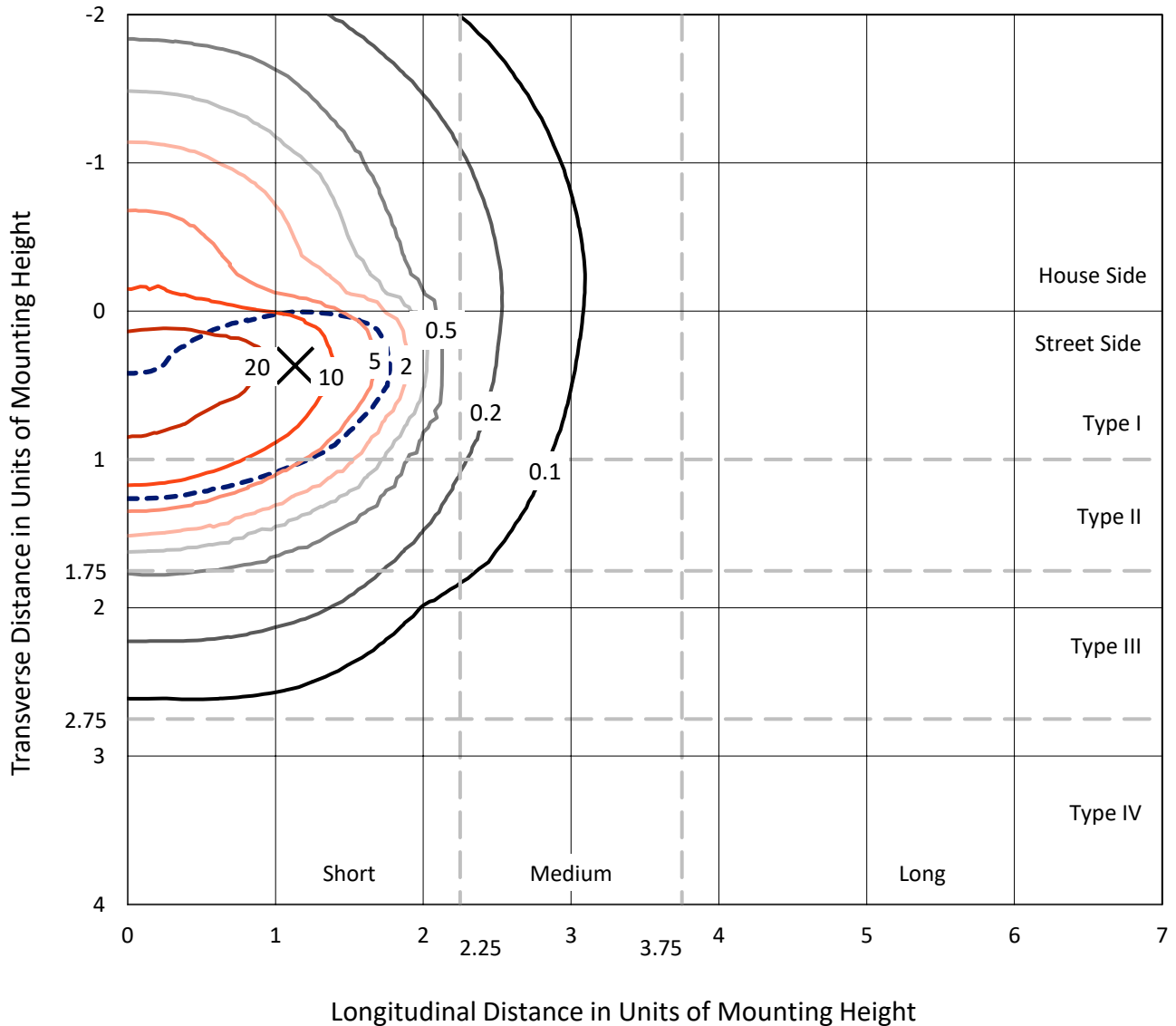
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533338
 CATALOG NUMBER: GALN-SA8D-730-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

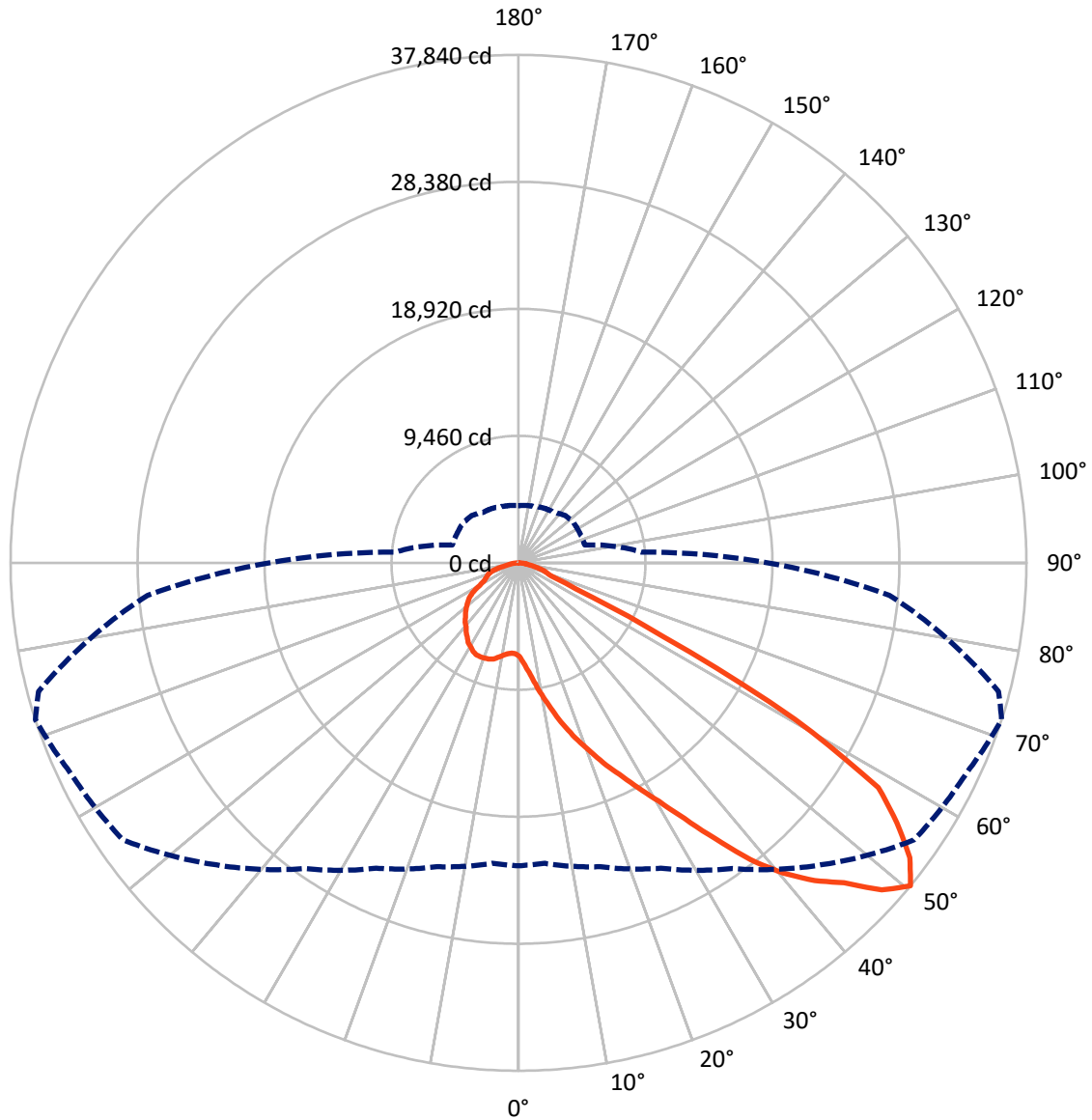
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.9 fc
 Type II - Short - N/A

REPORT NUMBER: P533338
CATALOG NUMBER: GALN-SA8D-730-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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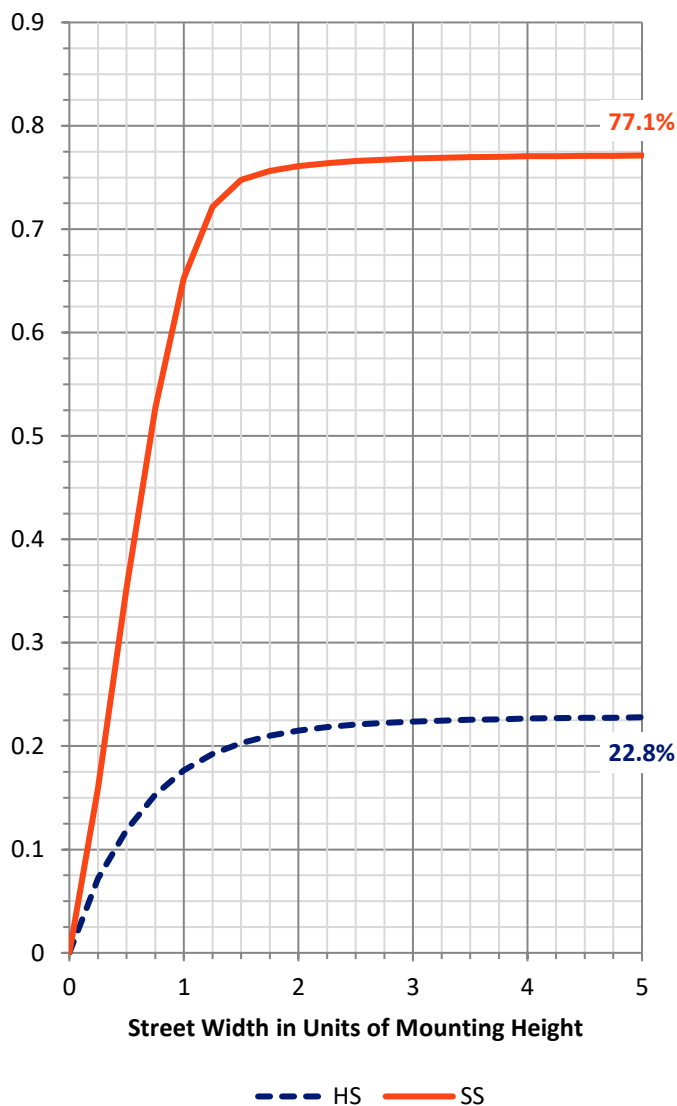
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11453.5	0.0	11453.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	38538.5	0.0	38538.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	49992.0	0.0	49992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.6	1.6
10°-20°	3060.2	6.1
20°-30°	5933.5	11.9
30°-40°	9829.7	19.7
40°-50°	13753.9	27.5
50°-60°	11603.2	23.2
60°-70°	3536.6	7.1
70°-80°	1240.7	2.5
80°-90°	215.7	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°	49992.0	100.0
0°-180°	49992.0	100.0

Coefficient of Utilization

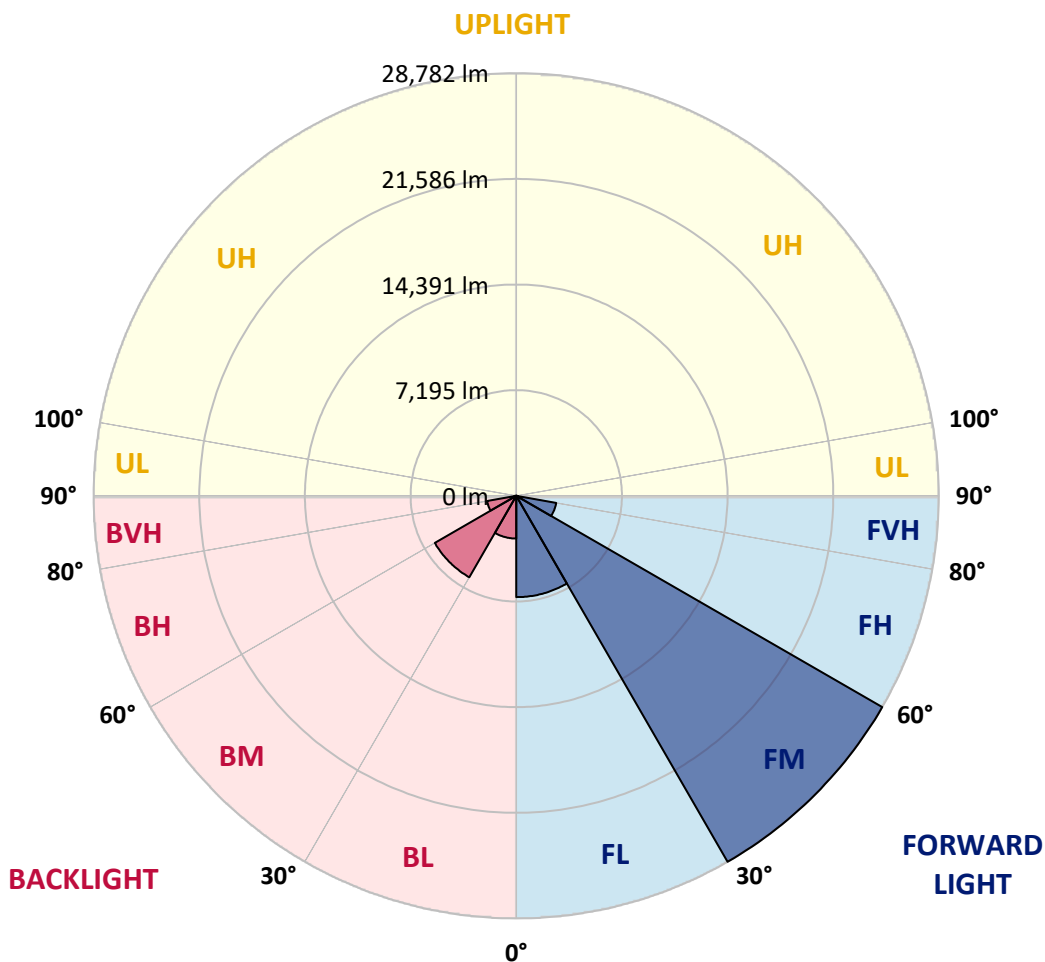


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6900.7	13.8			
FM (30°-60°)	28781.7	57.6			
FH (60°-80°)	2759.5	5.5			G2/5000
FVH (80°-90°)	96.6	0.2			G1/100
BL (0°-30°)	2911.5	5.8	B4/5000		
BM (30°-60°)	6405.0	12.8	B4/8500		
BH (60°-80°)	2017.9	4.0	B3/2500		G3/2500
BVH (80°-90°)	119.1	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6959.3	6959.3	6959.3	6959.3	6959.3	6959.3	6959.3	6959.3	6959.3	6959.3	6959.3
2.5°	8951.2	8895.5	8728.5	8672.9	8474.9	8116.1	7992.4	7627.4	7472.8	7330.5	7163.5
5°	11320.5	11060.7	11042.1	10726.6	10268.9	10002.9	9211.0	8679.0	8190.3	7942.9	7485.1
7.5°	12829.9	12836.1	12836.1	12576.3	12211.3	11537.0	10825.6	9866.8	9130.6	8765.6	7986.2
10°	14265.0	14141.3	14073.3	14048.5	13801.1	13145.4	12384.5	11196.8	10188.4	9761.6	8363.5
12.5°	15279.6	15174.4	15329.0	15248.6	15069.2	14642.4	13924.8	12570.1	11308.1	10732.8	8969.8
15°	15762.1	15836.3	15960.0	16182.7	16102.3	15941.5	15149.7	13980.5	12514.4	11864.9	9508.0
17.5°	16504.4	16300.3	16448.7	16727.1	16949.8	16875.6	16424.0	15001.2	13708.3	12910.3	10231.7
20°	17024.0	16906.5	16980.7	17302.4	17469.4	17890.1	17655.0	16337.4	14852.7	14011.4	11085.4
22.5°	18508.7	18335.5	18094.2	18143.7	18205.6	18502.5	18558.2	17803.5	16182.7	15291.9	11895.8
25°	20339.8	20178.9	19894.4	19603.6	19424.2	19368.5	19560.3	18954.1	17457.0	16535.3	12768.0
27.5°	22356.4	22084.2	21904.8	21304.8	20822.3	20748.0	20655.2	20327.4	18966.4	17970.5	13751.6
30°	24317.4	24100.9	23859.6	22900.8	22399.7	22319.3	21861.5	21954.3	20605.8	19498.4	14865.1
32.5°	25802.0	25820.6	25270.0	24546.3	24076.1	23649.3	23482.3	23748.3	22709.0	21818.2	16108.5
35°	27002.1	27057.8	26532.0	25876.3	25369.0	25665.9	25591.7	25715.4	25220.5	24131.8	17556.0
37.5°	28171.3	27892.9	27330.0	27014.5	26748.5	27237.2	27868.2	27973.3	28066.1	26785.6	19238.6
40°	28363.1	28387.8	28059.9	28282.6	27948.6	28684.7	30150.8	30014.7	30392.1	29272.4	21063.5
42.5°	28090.9	28146.6	28276.5	28591.9	29396.1	30280.7	32458.2	31901.5	32359.3	31363.3	22838.9
45°	27645.5	27416.6	27577.4	28777.5	30169.4	32136.6	34567.7	34134.7	33986.2	33151.1	24954.5
47.5°	25517.5	25752.6	26253.6	27732.1	29823.0	32458.2	36064.7	35965.7	36411.1	35823.4	26878.4
50°	22566.7	22473.9	23439.0	25103.0	27800.1	31827.3	35984.3	36881.3	37840.1	37023.5	27738.3
52.5°	16900.3	17395.2	18224.1	20290.3	24138.0	28387.8	34227.4	35724.5	36503.9	36330.7	27045.4
55°	10683.3	10831.8	11332.9	13788.7	17252.9	22783.2	29340.5	32810.8	34202.7	34852.2	26408.3
57.5°	5190.1	4911.7	5524.1	7497.5	9965.7	15322.9	22628.6	28579.6	31604.6	32779.9	25022.6
60°	2709.5	2814.7	3055.9	3761.1	5153.0	7955.3	14104.2	19046.9	23667.8	25474.2	18966.4
62.5°	2245.5	2282.7	2443.5	2796.1	3427.1	4577.7	7200.6	9285.3	12069.0	13695.9	10788.5
65°	1905.3	1923.9	2097.1	2332.1	2734.2	3222.9	3705.4	3878.7	4695.2	4818.9	3835.4
67.5°	1589.8	1608.4	1794.0	2016.7	2276.5	2406.4	2530.1	2517.7	2610.5	2573.4	2567.2
70°	1224.8	1243.4	1435.2	1670.2	1800.1	1725.9	2109.4	2196.0	2233.2	2264.1	2313.6
72.5°	884.6	921.7	1070.2	1237.2	1169.2	1342.4	1738.3	1868.2	1917.7	1936.2	1998.1
75°	643.3	655.7	692.8	643.3	742.3	934.1	1224.8	1385.7	1447.5	1466.1	1558.9
77.5°	284.6	290.7	296.9	371.2	476.3	581.5	730.0	859.9	946.5	971.2	996.0
80°	148.5	154.7	191.8	253.6	340.2	426.8	532.0	606.2	661.9	668.1	692.8
82.5°	92.8	99.0	136.1	179.4	241.3	315.5	389.7	451.6	494.9	501.1	507.3
85°	43.3	55.7	80.4	111.3	160.8	204.1	210.3	179.4	191.8	198.0	185.6
87.5°	12.4	18.6	24.7	18.6	24.7	24.7	30.9	37.1	37.1	37.1	43.3
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°	6959.3	6959.3	6959.3	6959.3	6959.3	6959.3	6959.3	6959.3	6959.3	6959.3	6959.3
2.5°	7070.7	7015.0	6798.5	6718.1	6507.7	6544.8	6433.5	6427.3	6402.6	6396.4	6390.2
5°	7243.9	7070.7	6810.8	6612.9	6495.4	6483.0	6402.6	6402.6	6427.3	6445.9	6402.6
7.5°	7528.4	7330.5	6891.3	6705.7	6600.5	6582.0	6526.3	6483.0	6538.7	6520.1	6470.6
10°	7856.3	7509.9	7045.9	6885.1	6711.9	6668.6	6668.6	6687.1	6594.3	6625.3	6575.8
12.5°	8221.3	7757.3	7243.9	7058.3	6854.1	6829.4	6817.0	6680.9	6730.4	6705.7	6582.0
15°	8685.2	8041.9	7497.5	7182.0	7008.8	6897.5	6736.6	6711.9	6680.9	6619.1	6563.4
17.5°	9186.3	8351.2	7615.0	7219.1	6959.3	6878.9	6755.2	6625.3	6532.5	6544.8	6501.5
20°	9613.1	8635.7	7658.3	7256.2	6922.2	6767.5	6575.8	6495.4	6396.4	6390.2	6384.0
22.5°	10120.4	9019.3	7720.2	7157.3	6810.8	6650.0	6520.1	6377.8	6309.8	6223.2	6266.5
25°	10726.6	9167.7	7732.6	7101.6	6730.4	6445.9	6377.8	6223.2	6198.4	6074.7	6099.5
27.5°	11165.8	9248.2	7633.6	6928.4	6544.8	6328.3	6204.6	6093.3	6050.0	5957.2	5932.4
30°	11753.5	9371.9	7423.3	6711.9	6359.3	6118.0	6043.8	6019.0	5895.3	5796.3	5784.0
32.5°	12421.6	9452.3	7287.2	6489.2	6167.5	5981.9	6019.0	5901.5	5746.8	5660.2	5635.5
35°	12953.6	9483.2	6946.9	6235.5	6037.6	5920.1	5876.8	5852.0	5629.3	5548.9	5487.0
37.5°	13764.0	9415.2	6662.4	6056.1	5895.3	5852.0	5814.9	5647.9	5394.2	5276.7	5190.1
40°	14710.4	9396.6	6297.4	5802.5	5759.2	5808.7	5697.4	5437.5	5084.9	4955.0	4893.2
42.5°	15619.8	9526.5	6068.5	5666.4	5610.8	5629.3	5474.7	5084.9	4911.7	4837.5	4738.5
45°	17141.6	9798.7	5691.2	5456.1	5431.4	5419.0	5233.4	4825.1	4726.1	4633.4	4614.8
47.5°	18514.9	9619.3	5449.9	5239.6	5264.3	5196.3	4800.4	4670.5	4559.1	4466.3	4435.4
50°	18595.3	9192.5	5109.7	5072.6	5078.8	4961.2	4583.9	4497.3	4355.0	4293.1	4249.8
52.5°	18174.6	8493.5	4794.2	4806.6	4825.1	4633.4	4317.9	4256.0	4138.5	4051.9	4027.1
55°	16993.1	7404.7	4484.9	4534.4	4583.9	4218.9	4119.9	3965.3	3872.5	3748.7	3754.9
57.5°	14970.3	5963.4	4051.9	4132.3	4237.4	3835.4	3761.1	3569.4	3433.3	3334.3	3321.9
60°	10033.8	4243.6	3402.3	3433.3	3668.3	3507.5	3501.3	3309.5	3124.0	3037.4	2987.9
62.5°	5920.1	3241.5	2938.4	2907.4	2901.3	2994.1	3148.7	3080.7	2839.4	2672.4	2721.9
65°	3099.2	2802.3	2734.2	2629.1	2567.2	2542.5	2660.0	2690.9	2530.1	2350.7	2338.3
67.5°	2604.3	2604.3	2548.7	2511.5	2424.9	2319.8	2245.5	2146.6	2121.8	2072.3	2010.5
70°	2369.3	2431.1	2412.6	2326.0	2251.7	2134.2	1942.4	1781.6	1626.9	1571.3	1608.4
72.5°	2066.1	2128.0	2128.0	2084.7	1985.7	1806.3	1620.7	1435.2	1305.3	1206.3	1193.9
75°	1589.8	1620.7	1695.0	1645.5	1515.6	1404.2	1212.5	1020.7	897.0	804.2	785.6
77.5°	1014.5	1064.0	1064.0	1057.8	965.0	859.9	736.1	600.0	507.3	439.2	420.7
80°	674.3	705.2	730.0	705.2	643.3	562.9	470.1	377.3	309.3	253.6	241.3
82.5°	494.9	532.0	550.6	525.8	464.0	402.1	334.0	266.0	198.0	154.7	142.3
85°	191.8	198.0	222.7	266.0	259.8	253.6	204.1	148.5	111.3	80.4	74.2
87.5°	49.5	43.3	49.5	49.5	43.3	37.1	37.1	37.1	37.1	18.6	24.7
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)