

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: P533080

Luminaire Tested: **GALN-SA8C-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40479 lumens
Efficiency: N/A
Efficacy: 94.4 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

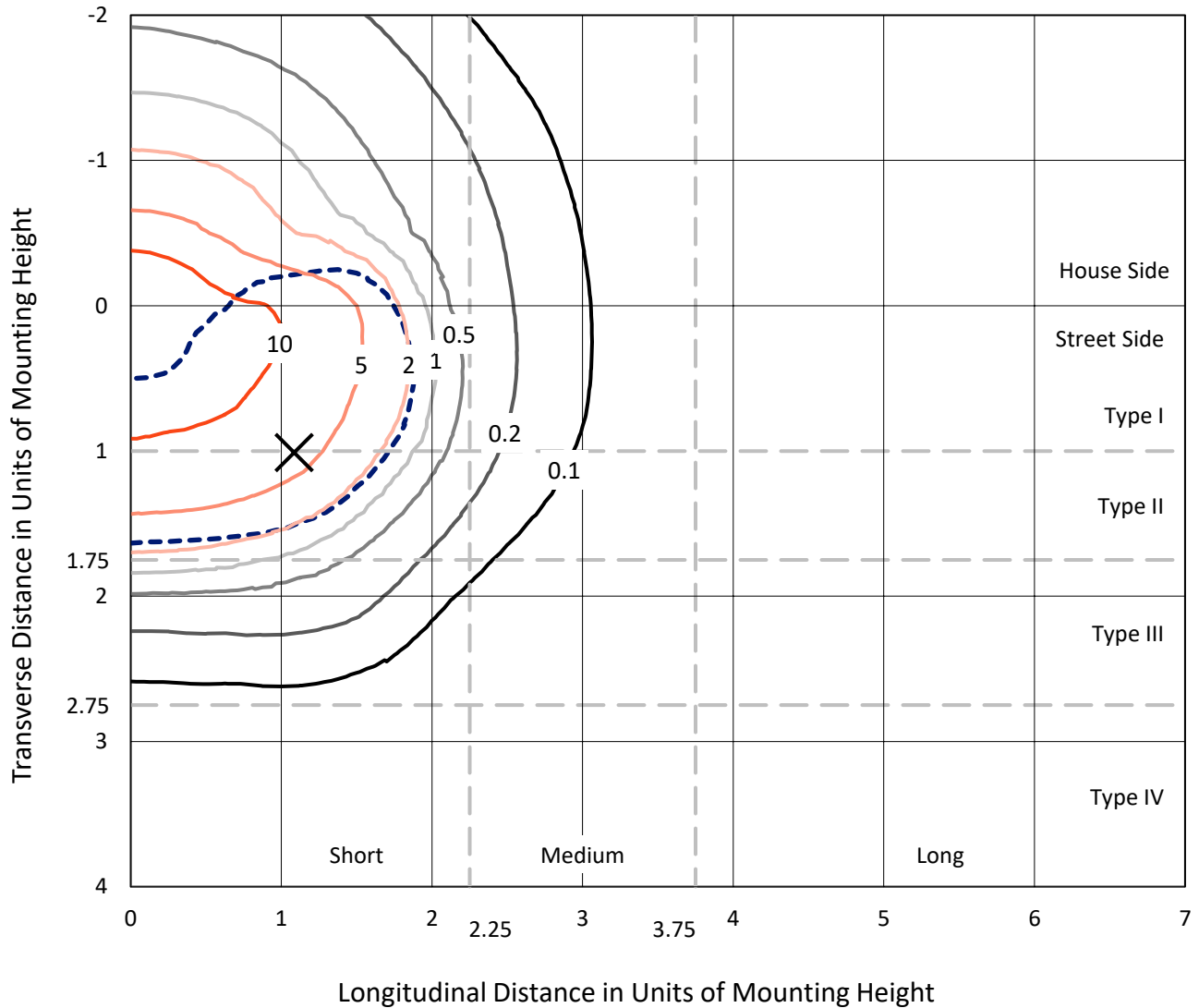
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533080
 CATALOG NUMBER: GALN-SA8C-727-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

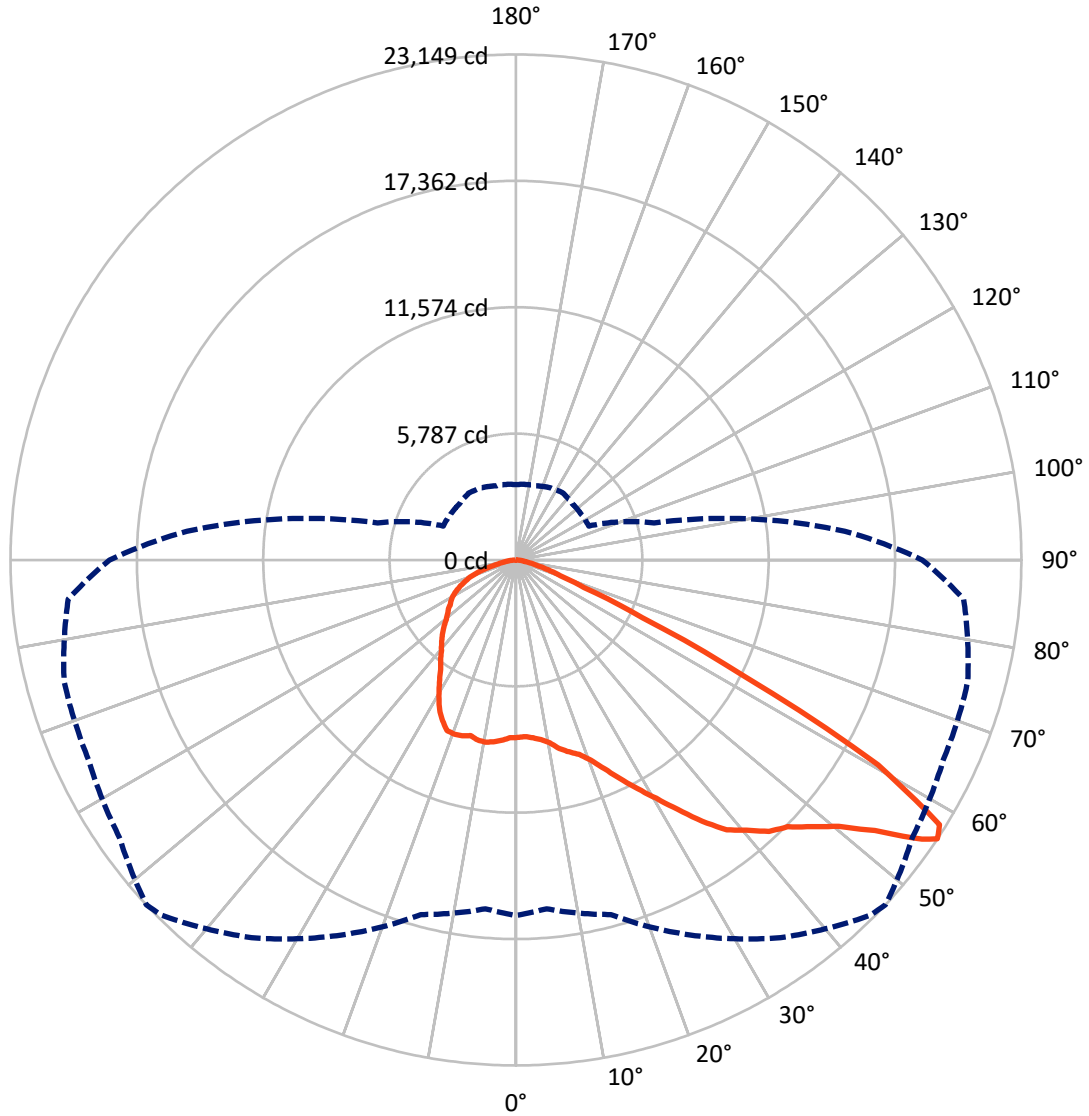
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

REPORT NUMBER: P533080
CATALOG NUMBER: GALN-SA8C-727-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P533080
 CATALOG NUMBER: GALN-SA8C-727-U-T3-GRSWH

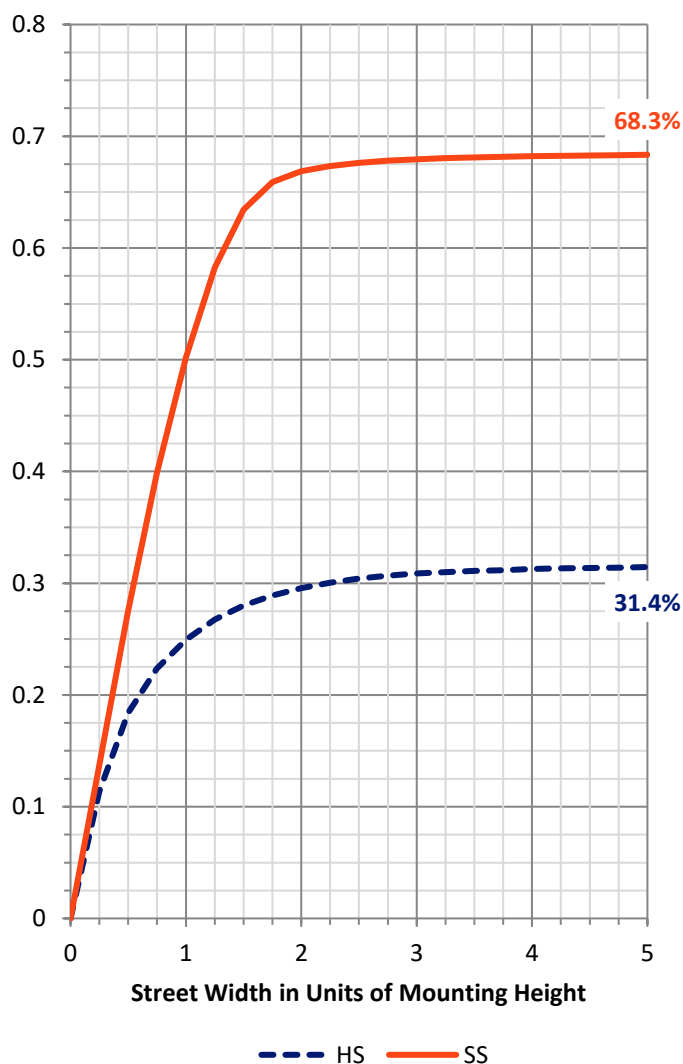
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12827.3	0.0	12827.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	27651.7	0.0	27651.7
	% Fixture	68.3	0.0	68.3
Total	Lumens	40479.0	0.0	40479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	792.3	2.0
10°-20°	2499.2	6.2
20°-30°	4417.9	10.9
30°-40°	6635.6	16.4
40°-50°	9106.7	22.5
50°-60°	10849.4	26.8
60°-70°	4642.9	11.5
70°-80°	1313.9	3.2
80°-90°	221.1	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°	40479.0	100.0
0°-180°	40479.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533080

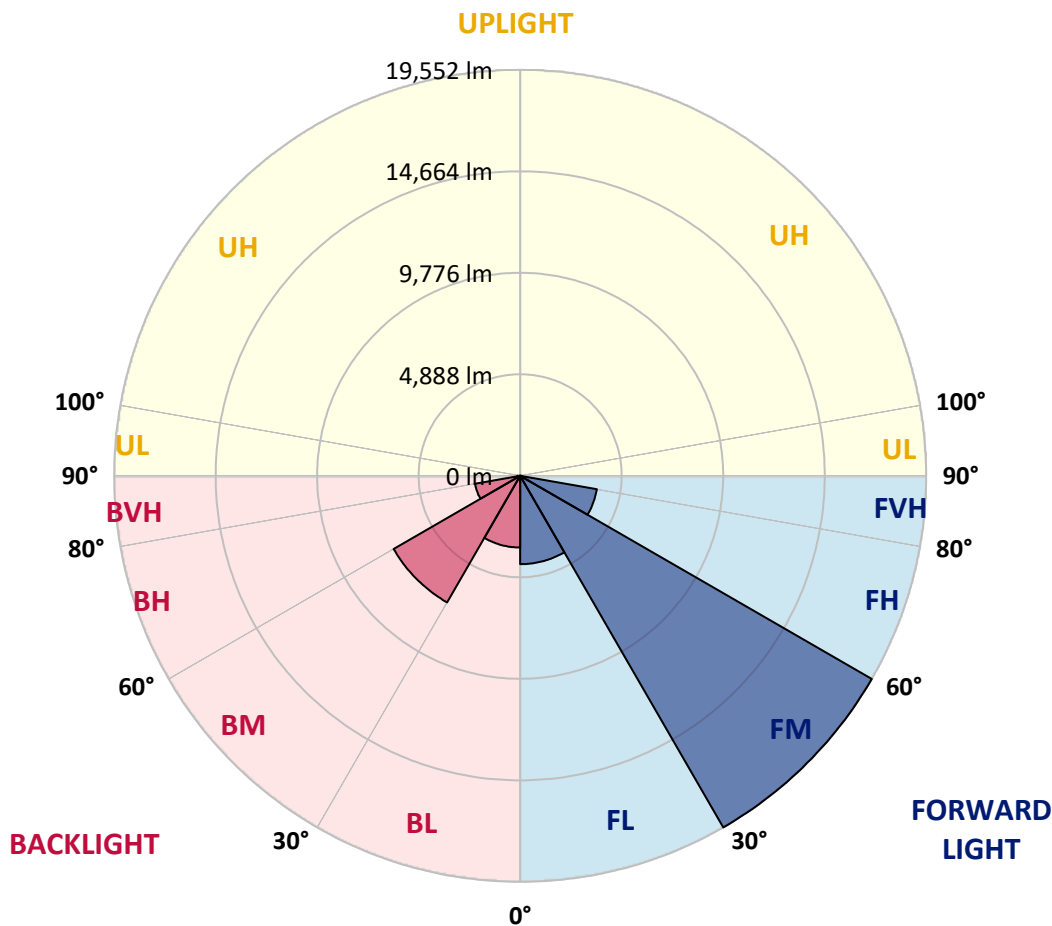
CATALOG NUMBER: GALN-SA8C-727-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4255.7	10.5			
FM (30°-60°)	19552.3	48.3			
FH (60°-80°)	3749.8	9.3			G2/5000
FVH (80°-90°)	93.9	0.2			G1/100
BL (0°-30°)	3453.6	8.5	B4/5000		
BM (30°-60°)	7039.4	17.4	B4/8500		
BH (60°-80°)	2207.0	5.5	B3/2500		G3/2500
BVH (80°-90°)	127.3	0.3			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





REPORT NUMBER: P533080

CATALOG NUMBER: GALN-SA8C-727-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0
2.5°	8100.0	8084.5	8074.2	8156.8	8125.8	8131.0	8100.0	8131.0	8151.7	8105.2	8172.3
5°	8084.5	8131.0	8089.7	8115.5	8182.6	8162.0	8182.6	8244.6	8229.1	8213.6	8193.0
7.5°	8229.1	8234.3	8265.2	8275.6	8296.2	8275.6	8306.5	8363.3	8347.8	8260.1	8270.4
10°	8435.6	8445.9	8451.1	8507.9	8544.0	8549.2	8513.0	8461.4	8456.2	8575.0	8492.4
12.5°	8673.1	8647.3	8709.2	8729.9	8771.2	8817.6	8864.1	8755.7	8822.8	8827.9	8729.9
15°	9019.0	9044.8	8972.5	8972.5	8988.0	8993.1	9122.2	9070.6	9060.3	9003.5	9044.8
17.5°	9535.2	9359.7	9354.5	9282.2	9271.9	9313.2	9359.7	9401.0	9540.4	9426.8	9204.8
20°	9912.1	9953.4	9803.7	9715.9	9731.4	9824.3	9777.9	9963.7	10061.8	9875.9	9659.1
22.5°	10578.0	10438.7	10474.8	10278.6	10294.1	10392.2	10387.0	10578.0	10634.8	10340.6	10025.7
25°	11027.2	10991.0	11022.0	10867.1	10887.8	10965.2	11089.1	11404.1	11311.1	10985.9	10258.0
27.5°	11682.8	11610.6	11584.7	11528.0	11507.3	11713.8	11858.4	12193.9	12126.8	11651.9	10671.0
30°	12354.0	12307.5	12333.3	12101.0	12183.6	12622.4	12663.7	13123.2	13092.2	12255.9	11130.4
32.5°	12818.6	12844.4	12890.9	12761.8	13128.3	13479.4	13618.8	14140.2	14166.0	13293.5	12018.4
35°	13567.2	13479.4	13505.2	13654.9	13825.3	14465.4	14692.6	15038.5	15255.3	14382.8	12870.2
37.5°	14036.9	14129.9	14021.5	14258.9	14702.9	15472.1	15678.6	16034.9	16262.0	15456.6	14031.8
40°	14770.0	14620.3	14697.8	14868.1	15322.4	16324.0	16267.2	16633.7	16706.0	16370.4	15115.9
42.5°	15559.9	15487.6	15379.2	15766.4	16148.4	16876.3	16989.9	16819.6	17186.1	17263.5	16664.7
45°	16504.6	16592.4	16607.9	16618.2	16953.8	17588.8	17433.9	17284.2	17707.5	18270.2	17624.9
47.5°	17382.3	17103.5	17304.8	17583.6	18058.6	18063.7	18244.4	17888.2	18337.3	18838.1	18492.2
50°	17676.5	17542.3	17810.8	18337.3	19070.4	19147.9	19168.5	18662.6	18894.9	19292.4	18791.6
52.5°	17563.0	17516.5	18203.1	19018.8	20092.6	20485.0	20588.2	19963.5	20092.6	19911.9	19452.5
55°	17020.9	17160.3	17852.1	19514.4	21161.3	22374.5	22570.6	21780.8	20959.9	21099.3	20593.4
56°	16277.5	16034.9	16809.2	18951.7	21114.8	22988.8	23148.8	22162.8	21605.2	21424.5	20583.0
57.5°	13809.8	13494.9	14511.9	17051.9	19942.9	22756.5	22875.2	22322.8	21496.8	21130.3	19080.7
60°	8084.5	8239.4	9530.0	11760.3	15384.4	18657.4	19054.9	19457.6	18905.2	17263.5	14202.1
62.5°	3902.9	3804.8	4728.9	6742.3	9375.2	11910.0	11791.2	12921.8	13541.3	12266.2	8967.3
65°	2044.4	2034.0	2581.3	3680.9	5152.2	6257.0	6365.4	6974.6	7826.4	6318.9	4553.4
67.5°	1502.3	1543.6	1817.2	2586.4	3314.4	3381.5	3366.0	3670.6	3753.2	3175.0	2798.1
70°	1177.1	1197.7	1399.0	1966.9	2467.7	2209.6	2163.1	2199.2	2441.9	2545.1	2421.2
72.5°	851.8	872.5	1042.8	1326.8	1543.6	1507.5	1538.4	1739.8	2039.2	2147.6	2018.6
75°	567.9	583.4	676.3	810.5	913.8	986.0	1042.8	1275.1	1553.9	1615.9	1553.9
77.5°	392.4	407.8	469.8	573.0	583.4	629.8	650.5	758.9	929.3	1006.7	965.4
80°	222.0	222.0	253.0	294.3	361.4	423.3	433.7	521.4	598.9	650.5	660.8
82.5°	103.3	108.4	134.2	180.7	237.5	294.3	304.6	361.4	418.2	469.8	485.3
85°	51.6	56.8	77.4	108.4	144.6	175.5	170.4	175.5	185.9	175.5	180.7
87.5°	15.5	15.5	20.7	25.8	20.7	25.8	25.8	31.0	36.1	41.3	46.5
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: P533080

CATALOG NUMBER: GALN-SA8C-727-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0
2.5°	8177.5	8193.0	8089.7	8187.8	8151.7	8146.5	8218.8	8208.4	8234.3	8223.9	8162.0
5°	8182.6	8146.5	8254.9	8156.8	8203.3	8301.4	8234.3	8389.1	8311.7	8363.3	8249.7
7.5°	8342.7	8353.0	8332.3	8373.6	8353.0	8399.5	8363.3	8399.5	8337.5	8342.7	8445.9
10°	8482.1	8451.1	8487.2	8435.6	8471.7	8456.2	8373.6	8347.8	8368.5	8342.7	8409.8
12.5°	8740.2	8683.4	8657.6	8595.6	8554.3	8399.5	8270.4	8198.1	8296.2	8311.7	8280.7
15°	9003.5	9008.6	8889.9	8750.5	8492.4	8260.1	8291.0	8316.9	8316.9	8358.2	8280.7
17.5°	9168.7	9168.7	9060.3	8781.5	8518.2	8384.0	8353.0	8270.4	8198.1	8187.8	8182.6
20°	9457.8	9370.0	9122.2	8776.3	8507.9	8445.9	8213.6	8017.4	7867.7	7816.1	7810.9
22.5°	9788.2	9566.2	9220.3	8786.6	8492.4	8404.6	7971.0	7676.7	7408.2	7294.7	7310.2
25°	10092.8	9736.6	9277.1	8740.2	8435.6	8012.3	7527.0	7119.1	6840.4	6747.4	6701.0
27.5°	10304.4	9917.2	9277.1	8781.5	8223.9	7573.4	7077.8	6556.4	6313.8	6251.8	6262.2
30°	10588.4	10144.4	9437.1	8693.7	7800.6	7005.6	6411.9	6071.1	5926.6	5875.0	5911.1
32.5°	11254.3	10738.1	9659.1	8482.1	7299.8	6437.7	5957.6	5766.6	5554.9	5451.6	5415.5
35°	11977.1	11300.8	9875.9	8125.8	6737.1	5921.4	5622.0	5446.5	5193.5	5079.9	5100.6
37.5°	12999.3	12023.6	9891.4	7537.3	6127.9	5632.3	5358.7	5085.1	4878.6	4703.1	4651.4
40°	14377.7	13009.6	9855.3	6917.8	5637.5	5291.6	5090.3	4749.5	4517.2	4393.3	4419.1
42.5°	15590.9	14166.0	9705.6	6215.7	5193.5	5059.3	4832.1	4496.6	4269.4	4140.4	4130.0
45°	16613.1	15017.8	9421.6	5616.8	4821.8	4801.2	4537.9	4279.7	4099.1	3980.3	4031.9
47.5°	17557.8	15704.4	8993.1	5018.0	4481.1	4522.4	4269.4	4109.4	3995.8	3887.4	3882.2
50°	17898.5	15694.1	8616.3	4522.4	4207.5	4186.8	4176.5	4006.1	3887.4	3794.5	3835.8
52.5°	18466.4	15869.6	8208.4	4181.7	3959.7	3964.8	4001.0	3877.1	3742.8	3686.1	3737.7
55°	19282.1	15895.5	7310.2	3784.1	3753.2	3789.3	3789.3	3706.7	3593.1	3546.7	3520.9
56°	18616.1	15126.2	6556.4	3680.9	3649.9	3649.9	3748.0	3655.1	3515.7	3479.6	3448.6
57.5°	17170.6	13252.2	5487.8	3557.0	3510.5	3582.8	3634.4	3536.3	3407.3	3355.7	3386.6
60°	11842.9	8967.3	4124.9	3288.5	3288.5	3407.3	3448.6	3304.0	3247.2	3242.1	3200.8
62.5°	6912.6	5224.5	3226.6	3045.9	3056.2	3154.3	3185.3	3102.7	3030.4	3118.2	3159.5
65°	3665.4	3118.2	2767.1	2787.8	2792.9	2870.4	3004.6	2999.4	2994.3	3020.1	3025.2
67.5°	2653.5	2591.6	2514.2	2493.5	2503.8	2560.6	2694.8	2798.1	2792.9	2731.0	2684.5
70°	2364.4	2276.7	2230.2	2235.4	2194.1	2261.2	2369.6	2436.7	2318.0	2245.7	2214.7
72.5°	1966.9	1941.1	1910.1	1915.3	1832.7	1817.2	1693.3	1693.3	1662.3	1641.7	1677.8
75°	1502.3	1492.0	1507.5	1481.6	1393.9	1301.0	1228.7	1161.6	1058.3	1017.0	996.4
77.5°	949.9	980.9	1017.0	960.2	924.1	857.0	784.7	717.6	635.0	588.5	588.5
80°	645.3	671.1	696.9	686.6	645.3	583.4	526.6	454.3	397.5	361.4	356.2
82.5°	490.4	511.1	547.2	505.9	464.6	413.0	366.5	314.9	263.3	222.0	222.0
85°	175.5	201.3	222.0	242.6	258.1	263.3	227.2	185.9	149.7	118.7	113.6
87.5°	46.5	51.6	56.8	51.6	51.6	51.6	56.8	51.6	46.5	36.1	36.1
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)