

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: P532378

Luminaire Tested: **GALN-SA7D-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532378
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-SA7D-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA 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: 38419 lumens
Efficiency: N/A
Efficacy: 88.7 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

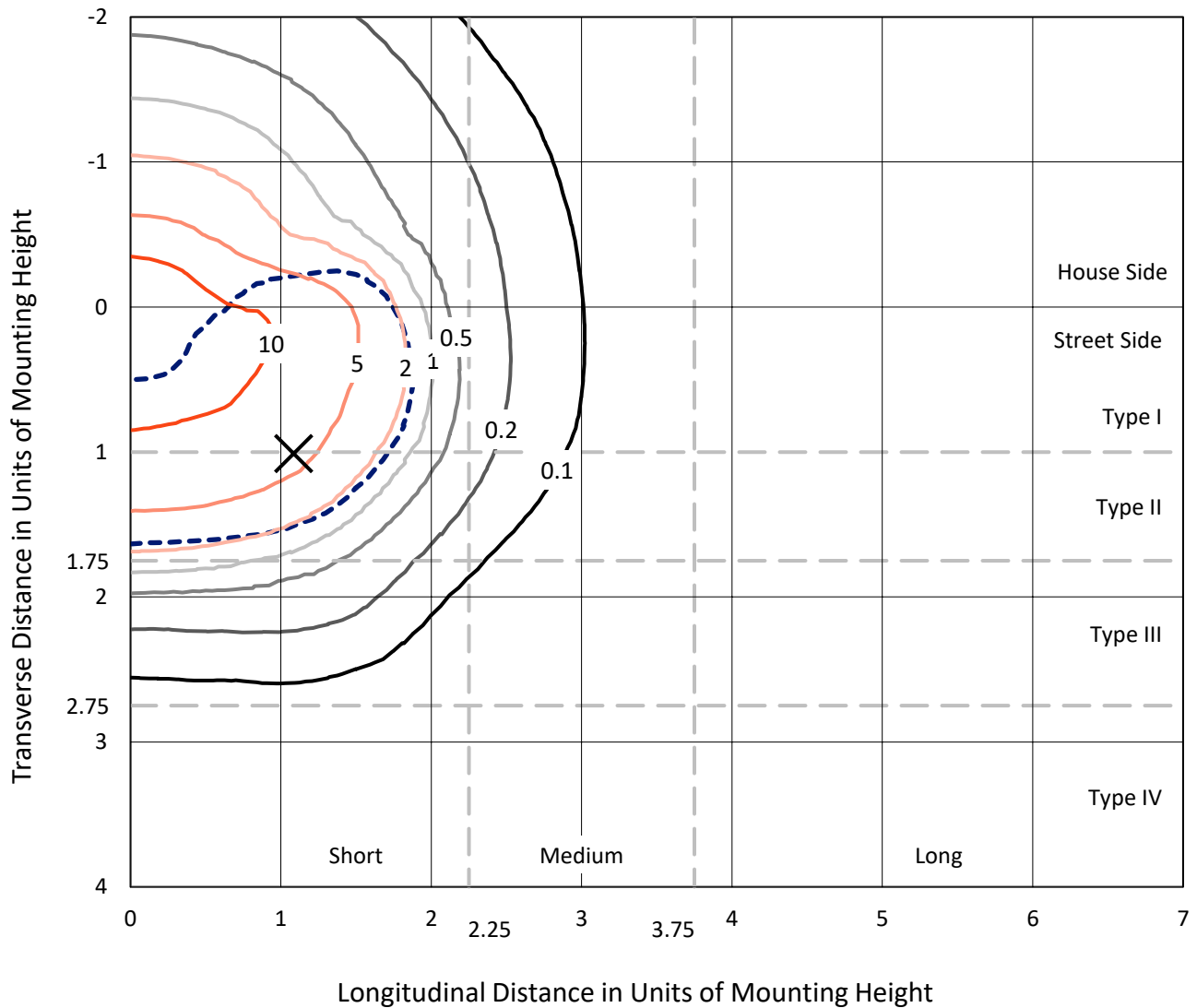
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

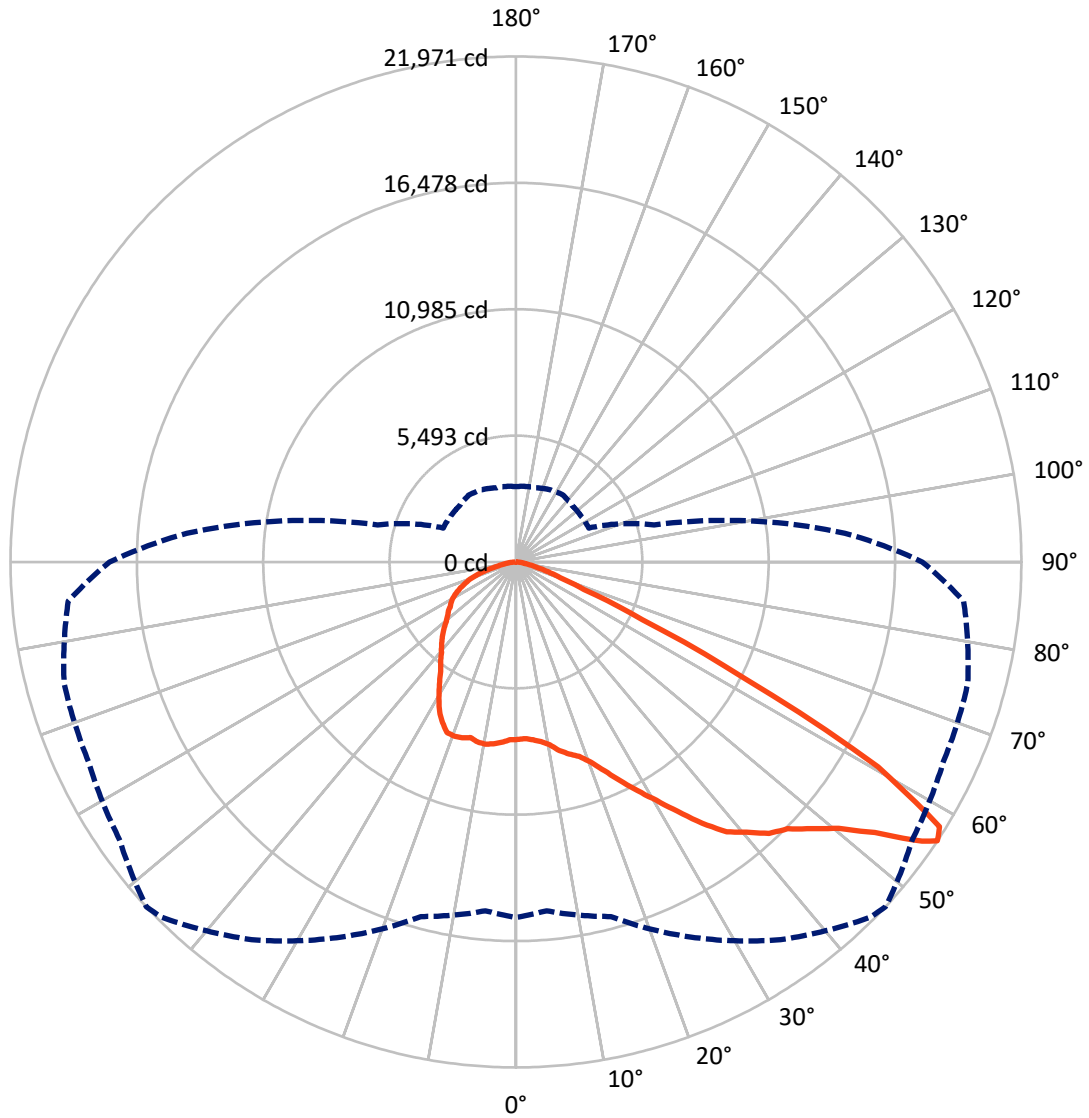
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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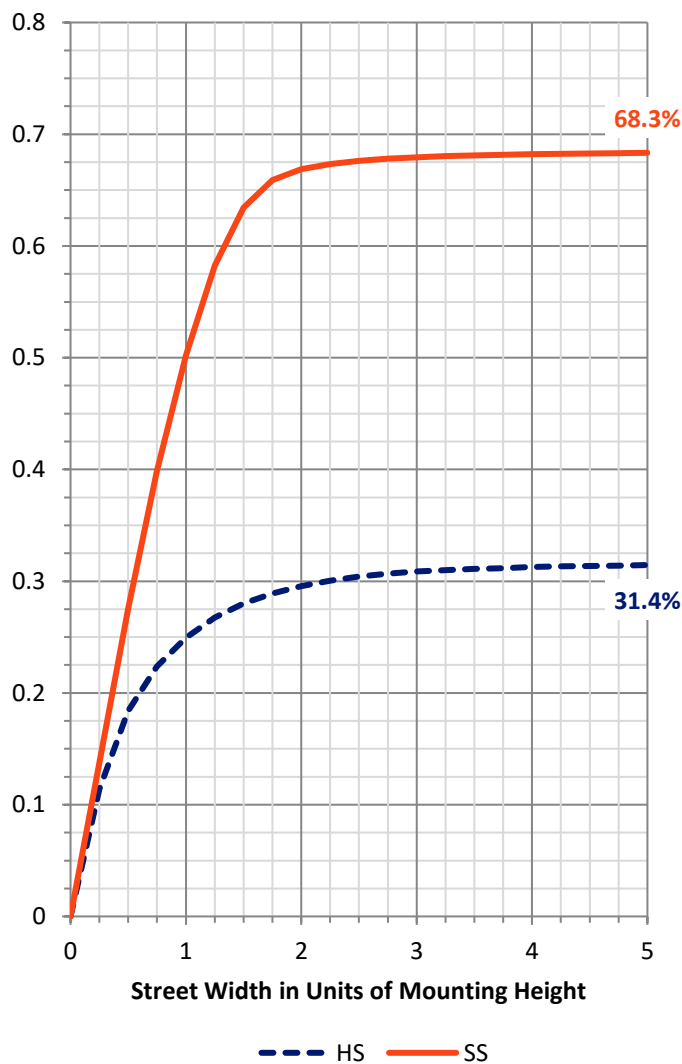
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12174.5	0.0	12174.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	26244.5	0.0	26244.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	38419.0	0.0	38419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.9	2.0
10°-20°	2372.0	6.2
20°-30°	4193.1	10.9
30°-40°	6297.9	16.4
40°-50°	8643.3	22.5
50°-60°	10297.3	26.8
60°-70°	4406.6	11.5
70°-80°	1247.1	3.2
80°-90°	209.9	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°	38419.0	100.0
0°-180°	38419.0	100.0

Coefficient of Utilization



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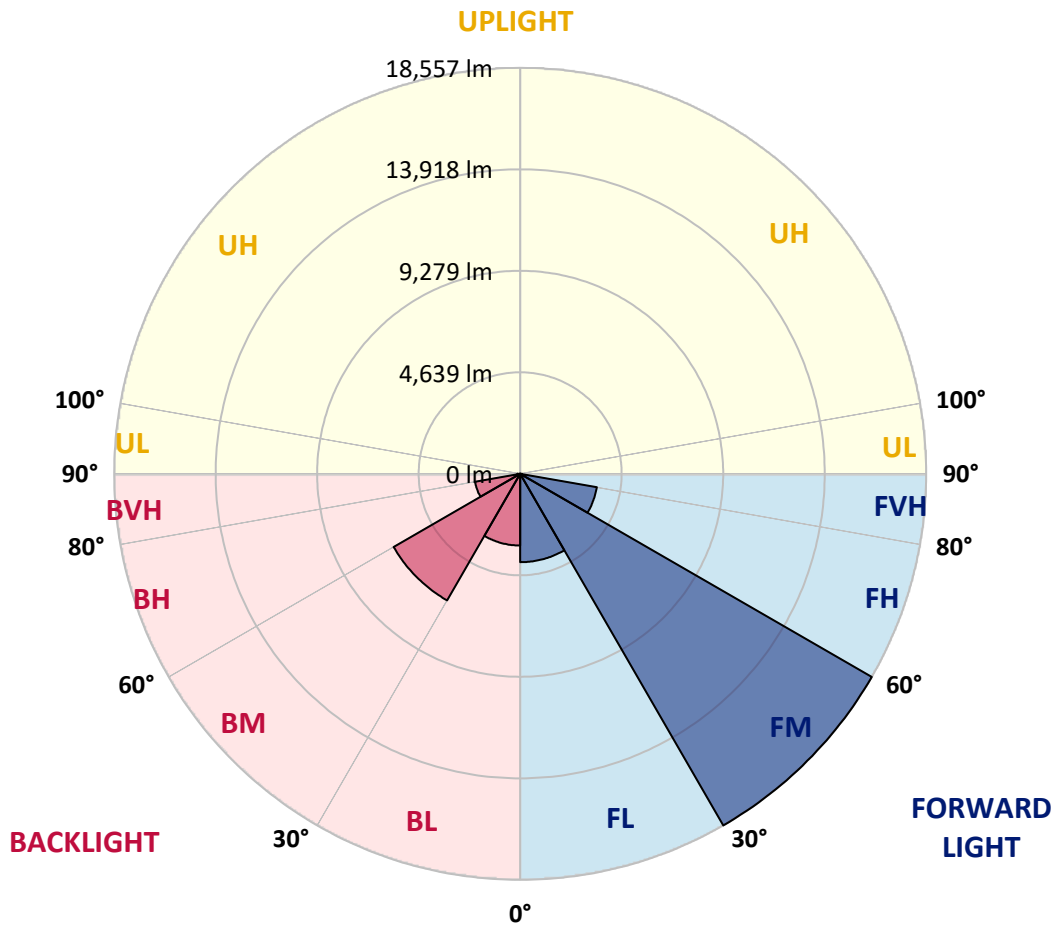
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4039.1	10.5			
FM (30°-60°)	18557.3	48.3			
FH (60°-80°)	3559.0	9.3			G2/5000
FVH (80°-90°)	89.1	0.2			G1/100
BL (0°-30°)	3277.9	8.5	B4/5000		
BM (30°-60°)	6681.2	17.4	B4/8500		
BH (60°-80°)	2094.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	120.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2
2.5°	7687.8	7673.1	7663.3	7741.7	7712.3	7717.2	7687.8	7717.2	7736.8	7692.7	7756.4
5°	7673.1	7717.2	7678.0	7702.5	7766.2	7746.6	7766.2	7825.0	7810.3	7795.6	7776.0
7.5°	7810.3	7815.2	7844.6	7854.4	7874.0	7854.4	7883.8	7937.7	7923.0	7839.7	7849.5
10°	8006.3	8016.1	8021.0	8074.9	8109.2	8114.1	8079.8	8030.8	8025.9	8138.6	8060.2
12.5°	8231.7	8207.2	8266.0	8285.6	8324.8	8368.9	8413.0	8310.1	8373.8	8378.7	8285.6
15°	8560.0	8584.5	8515.9	8515.9	8530.6	8535.5	8658.0	8609.0	8599.2	8545.3	8584.5
17.5°	9050.0	8883.4	8878.5	8809.9	8800.1	8839.3	8883.4	8922.6	9054.9	8947.1	8736.4
20°	9407.6	9446.8	9304.8	9221.5	9236.2	9324.3	9280.3	9456.6	9549.7	9373.3	9167.6
22.5°	10039.7	9907.4	9941.7	9755.5	9770.2	9863.3	9858.4	10039.7	10093.6	9814.3	9515.4
25°	10466.0	10431.7	10461.1	10314.1	10333.7	10407.2	10524.8	10823.7	10735.5	10426.8	9735.9
27.5°	11088.3	11019.7	10995.2	10941.3	10921.7	11117.7	11254.9	11573.4	11509.7	11058.9	10127.9
30°	11725.3	11681.2	11705.7	11485.2	11563.6	11980.0	12019.2	12455.3	12425.9	11632.2	10564.0
32.5°	12166.2	12190.7	12234.8	12112.3	12460.2	12793.4	12925.7	13420.6	13445.1	12617.0	11406.8
35°	12876.7	12793.4	12817.9	12960.0	13121.7	13729.3	13944.9	14273.2	14479.0	13650.9	12215.2
37.5°	13322.6	13410.8	13307.9	13533.3	13954.7	14684.7	14880.7	15218.8	15434.4	14670.0	13317.7
40°	14018.4	13876.3	13949.8	14111.5	14542.7	15493.2	15439.3	15787.2	15855.8	15537.3	14346.7
42.5°	14768.0	14699.4	14596.6	14964.0	15326.6	16017.5	16125.3	15963.6	16311.5	16385.0	15816.6
45°	15664.7	15748.0	15762.7	15772.5	16091.0	16693.7	16546.7	16404.6	16806.4	17340.4	16728.0
47.5°	16497.7	16233.1	16424.2	16688.8	17139.6	17144.5	17315.9	16977.9	17404.1	17879.4	17551.1
50°	16777.0	16649.6	16904.4	17404.1	18099.9	18173.4	18193.0	17712.8	17933.3	18310.6	17835.3
52.5°	16669.2	16625.1	17276.8	18050.9	19070.1	19442.5	19540.5	18947.6	19070.1	18898.6	18462.5
55°	16154.7	16287.0	16943.6	18521.3	20084.3	21235.8	21422.0	20672.3	19893.3	20025.5	19545.4
56°	15449.1	15218.8	15953.8	17987.2	20040.2	21818.9	21970.8	21034.9	20505.7	20334.2	19535.6
57.5°	13107.0	12808.1	13773.4	16184.1	18928.0	21598.4	21711.1	21186.8	20402.8	20054.9	18109.7
60°	7673.1	7820.1	9045.1	11161.8	14601.5	17707.9	18085.2	18467.4	17943.1	16385.0	13479.4
62.5°	3704.3	3611.2	4488.2	6399.2	8898.1	11303.9	11191.2	12264.2	12852.2	11642.0	8511.0
65°	1940.3	1930.5	2449.9	3493.6	4890.0	5938.6	6041.5	6619.7	7428.1	5997.4	4321.6
67.5°	1425.8	1465.0	1724.7	2454.8	3145.7	3209.4	3194.7	3483.8	3562.2	3013.4	2655.7
70°	1117.2	1136.8	1327.9	1866.8	2342.1	2097.1	2053.0	2087.3	2317.6	2415.6	2298.0
72.5°	808.5	828.1	989.8	1259.3	1465.0	1430.7	1460.1	1651.2	1935.4	2038.3	1915.8
75°	539.0	553.7	641.9	769.3	867.3	935.9	989.8	1210.3	1474.8	1533.6	1474.8
77.5°	372.4	387.1	445.9	543.9	553.7	597.8	617.4	720.3	882.0	955.5	916.3
80°	210.7	210.7	240.1	279.3	343.0	401.8	411.6	494.9	568.4	617.4	627.2
82.5°	98.0	102.9	127.4	171.5	225.4	279.3	289.1	343.0	396.9	445.9	460.6
85°	49.0	53.9	73.5	102.9	137.2	166.6	161.7	166.6	176.4	166.6	171.5
87.5°	14.7	14.7	19.6	24.5	19.6	24.5	24.5	29.4	34.3	39.2	44.1
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°	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2	7717.2
2.5°	7761.3	7776.0	7678.0	7771.1	7736.8	7731.9	7800.5	7790.7	7815.2	7805.4	7746.6
5°	7766.2	7731.9	7834.8	7741.7	7785.8	7878.9	7815.2	7962.2	7888.7	7937.7	7829.9
7.5°	7918.1	7927.9	7908.3	7947.5	7927.9	7972.0	7937.7	7972.0	7913.2	7918.1	8016.1
10°	8050.4	8021.0	8055.3	8006.3	8040.6	8025.9	7947.5	7923.0	7942.6	7918.1	7981.8
12.5°	8295.4	8241.5	8217.0	8158.2	8119.0	7972.0	7849.5	7780.9	7874.0	7888.7	7859.3
15°	8545.3	8550.2	8437.5	8305.2	8060.2	7839.7	7869.1	7893.6	7893.6	7932.8	7859.3
17.5°	8702.1	8702.1	8599.2	8334.6	8084.7	7957.3	7927.9	7849.5	7780.9	7771.1	7766.2
20°	8976.5	8893.2	8658.0	8329.7	8074.9	8016.1	7795.6	7609.4	7467.3	7418.3	7413.4
22.5°	9290.1	9079.4	8751.1	8339.5	8060.2	7976.9	7565.3	7286.0	7031.2	6923.4	6938.1
25°	9579.1	9241.1	8805.0	8295.4	8006.3	7604.5	7143.9	6756.8	6492.3	6404.1	6360.0
27.5°	9780.0	9412.5	8805.0	8334.6	7805.4	7188.0	6717.6	6222.8	5992.5	5933.7	5943.5
30°	10049.5	9628.1	8956.9	8251.3	7403.6	6649.1	6085.6	5762.2	5625.0	5576.0	5610.3
32.5°	10681.6	10191.6	9167.6	8050.4	6928.3	6110.1	5654.4	5473.1	5272.2	5174.2	5139.9
35°	11367.6	10725.7	9373.3	7712.3	6394.3	5620.1	5335.9	5169.3	4929.2	4821.4	4841.0
37.5°	12337.7	11411.7	9388.0	7153.7	5816.1	5345.7	5086.0	4826.3	4630.3	4463.7	4414.7
40°	13646.0	12347.5	9353.7	6565.8	5350.6	5022.3	4831.2	4507.8	4287.3	4169.7	4194.2
42.5°	14797.4	13445.1	9211.7	5899.4	4929.2	4801.8	4586.2	4267.7	4052.1	3929.7	3919.9
45°	15767.6	14253.6	8942.2	5331.0	4576.4	4556.8	4306.9	4061.9	3890.5	3777.8	3826.8
47.5°	16664.3	14905.2	8535.5	4762.6	4253.0	4292.2	4052.1	3900.3	3792.5	3689.6	3684.7
50°	16987.7	14895.4	8177.8	4292.2	3993.3	3973.8	3964.0	3802.3	3689.6	3601.4	3640.6
52.5°	17526.6	15062.0	7790.7	3968.9	3758.2	3763.1	3797.4	3679.8	3552.4	3498.5	3547.5
55°	18300.8	15086.5	6938.1	3591.6	3562.2	3596.5	3596.5	3518.1	3410.3	3366.2	3341.7
56°	17668.7	14356.5	6222.8	3493.6	3464.2	3464.2	3557.3	3469.1	3336.8	3302.5	3273.1
57.5°	16296.8	12577.8	5208.5	3376.0	3331.9	3400.5	3449.5	3356.4	3233.9	3184.9	3214.3
60°	11240.2	8511.0	3915.0	3121.2	3121.2	3233.9	3273.1	3135.9	3082.0	3077.1	3037.9
62.5°	6560.9	4958.6	3062.4	2890.9	2900.7	2993.8	3023.2	2944.8	2876.2	2959.5	2998.7
65°	3478.9	2959.5	2626.3	2645.9	2650.8	2724.3	2851.7	2846.8	2841.9	2866.4	2871.3
67.5°	2518.5	2459.7	2386.2	2366.6	2376.4	2430.3	2557.7	2655.7	2650.8	2592.0	2547.9
70°	2244.1	2160.8	2116.7	2121.6	2082.4	2146.1	2249.0	2312.7	2200.0	2131.4	2102.0
72.5°	1866.8	1842.3	1812.9	1817.8	1739.4	1724.7	1607.1	1607.1	1577.7	1558.1	1592.4
75°	1425.8	1416.0	1430.7	1406.2	1323.0	1234.8	1166.2	1102.5	1004.5	965.3	945.7
77.5°	901.6	931.0	965.3	911.4	877.1	813.4	744.8	681.1	602.7	558.6	558.6
80°	612.5	637.0	661.5	651.7	612.5	553.7	499.8	431.2	377.3	343.0	338.1
82.5°	465.5	485.1	519.4	480.2	441.0	392.0	347.9	298.9	249.9	210.7	210.7
85°	166.6	191.1	210.7	230.3	245.0	249.9	215.6	176.4	142.1	112.7	107.8
87.5°	44.1	49.0	53.9	49.0	49.0	49.0	53.9	49.0	44.1	34.3	34.3
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)