

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: P532284

Luminaire Tested: **GALN-SA7C-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32482 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

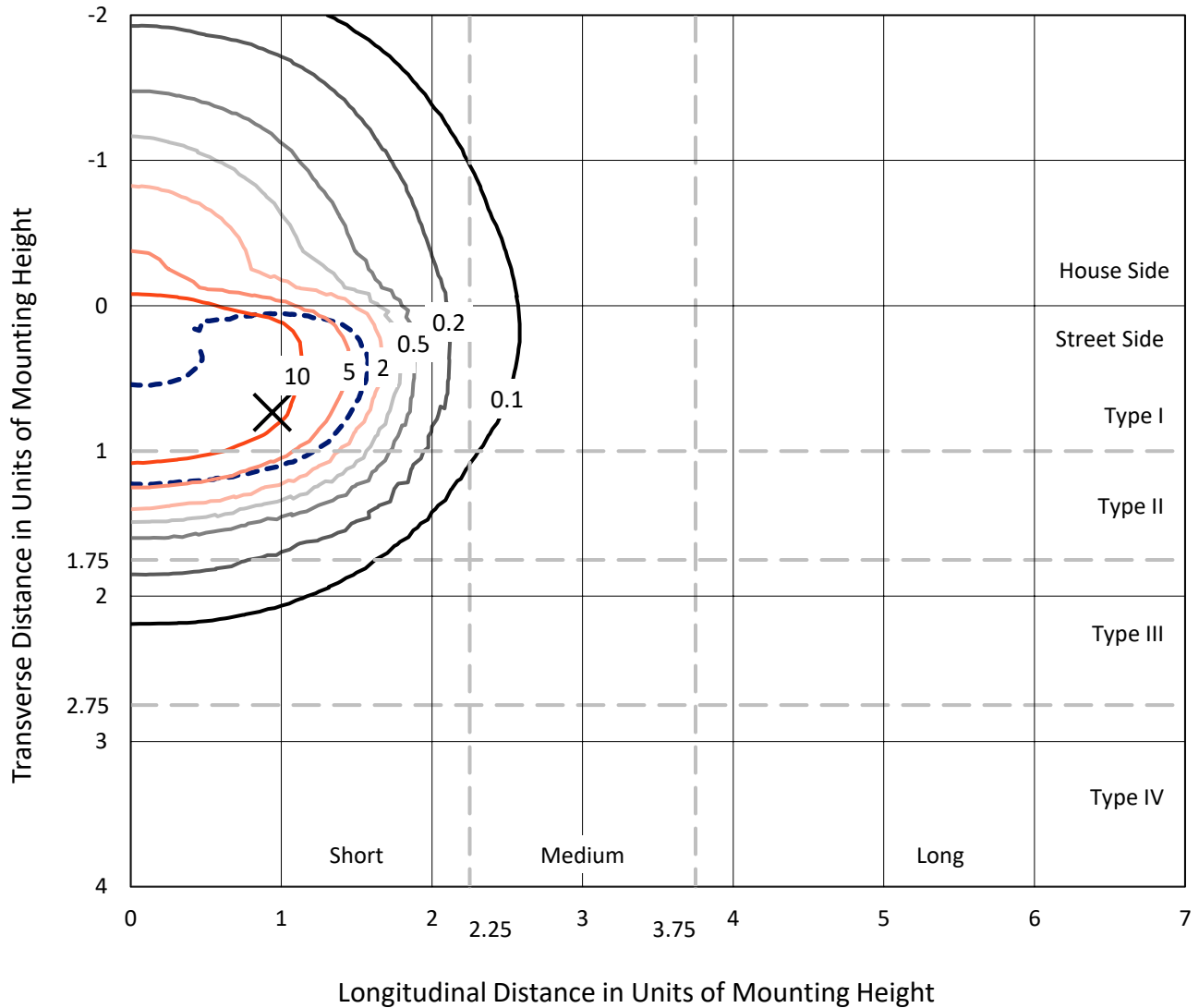
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

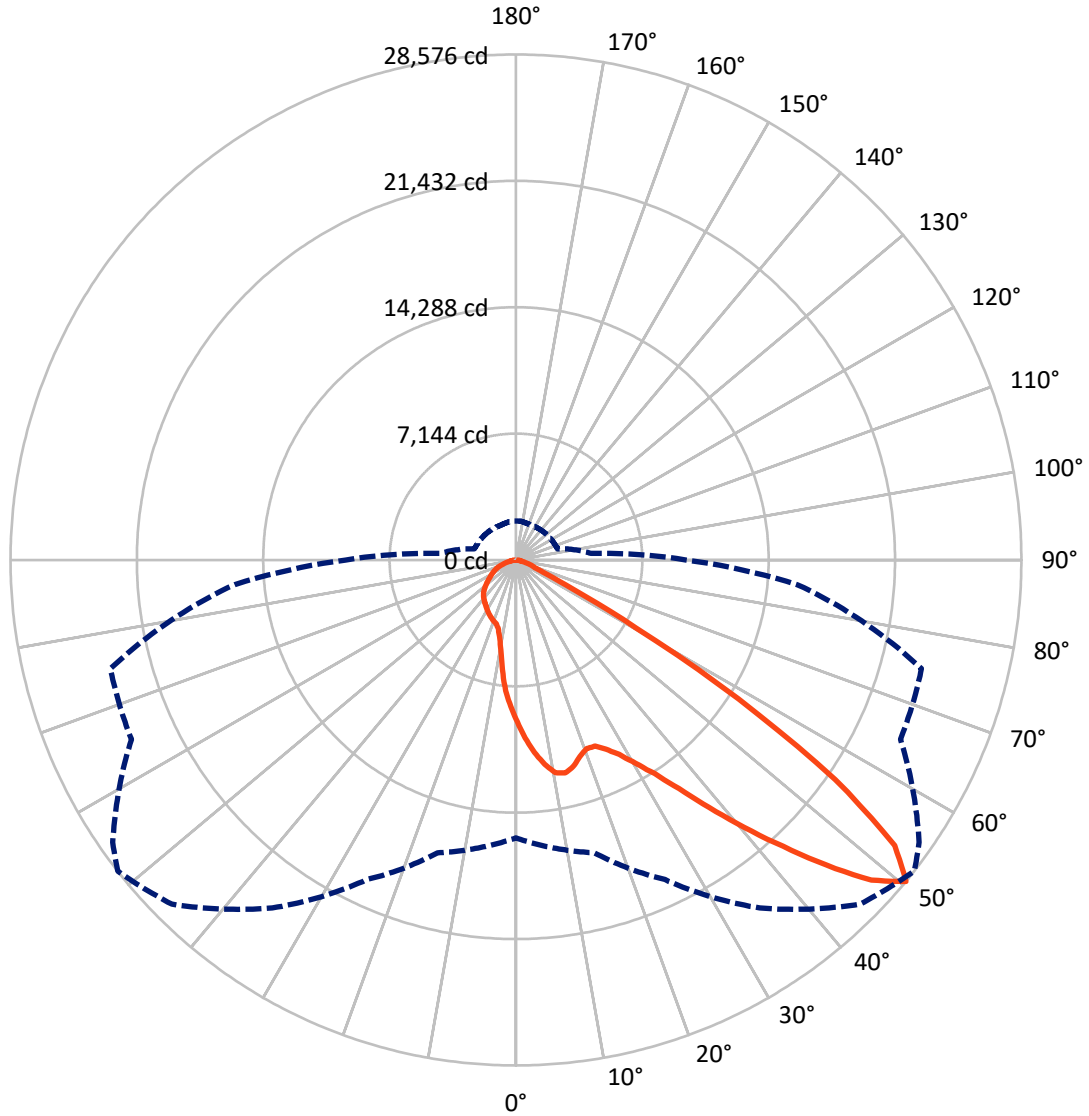
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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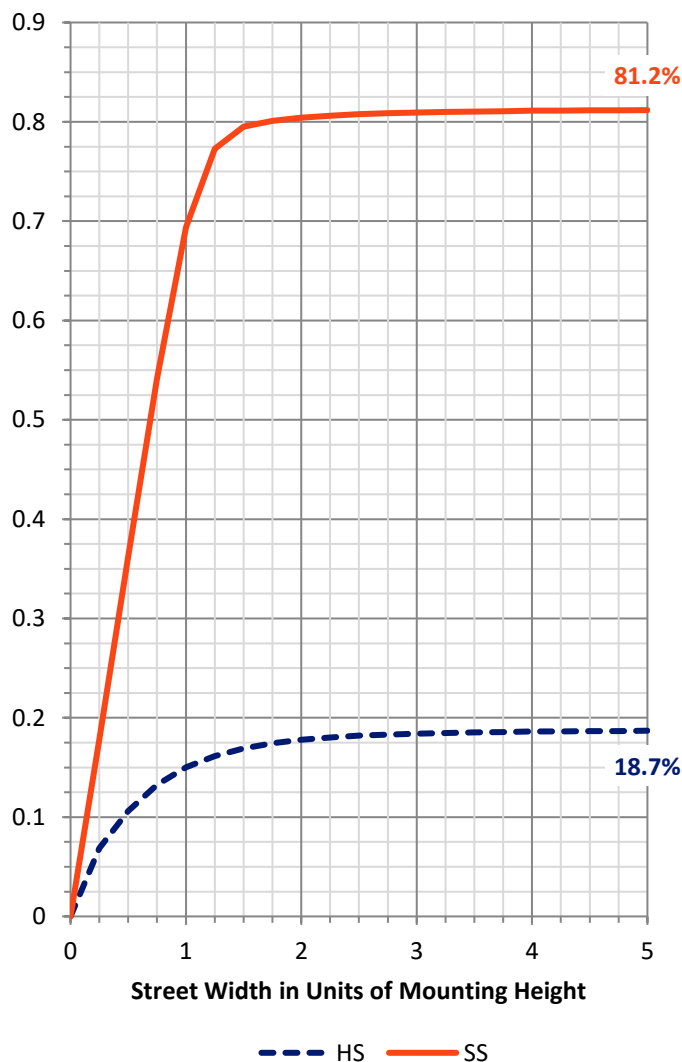
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6105.8	0.0	6105.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26376.1	0.0	26376.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	32482.0	0.0	32482.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.9	2.6
10°-20°	2261.9	7.0
20°-30°	3810.1	11.7
30°-40°	6393.7	19.7
40°-50°	9780.7	30.1
50°-60°	7130.9	22.0
60°-70°	1587.0	4.9
70°-80°	572.4	1.8
80°-90°	101.3	0.3
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°	32482.0	100.0
0°-180°	32482.0	100.0

Coefficient of Utilization



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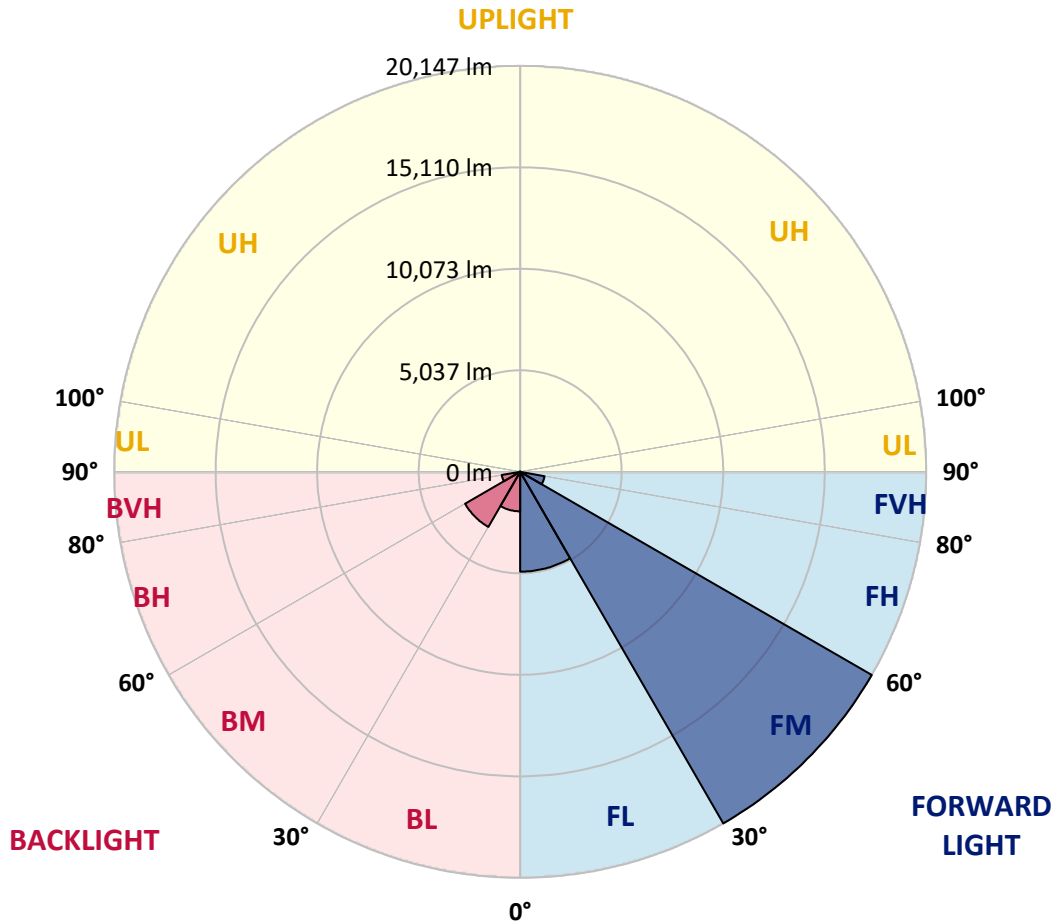
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4954.6	15.3			
FM (30°-60°)	20147.0	62.0			
FH (60°-80°)	1229.1	3.8			G1/1800
FVH (80°-90°)	45.4	0.1			G1/100
BL (0°-30°)	1961.3	6.0	B3/2500		
BM (30°-60°)	3158.4	9.7	B3/5000		
BH (60°-80°)	930.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	55.9	0.2			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°	52°	55°	65°	75°	85°
0°	9156.1	9156.1	9156.1	9156.1	9156.1	9156.1	9156.1	9156.1	9156.1	9156.1	9156.1
2.5°	10780.7	10573.2	10596.7	10447.9	10287.4	10240.5	10076.1	9919.5	9802.0	9551.5	9320.5
5°	11782.8	11720.2	11626.2	11508.8	11387.4	11089.9	10921.6	10725.9	10295.3	9907.7	9524.1
7.5°	11927.6	11915.9	11966.8	11966.8	12009.8	11896.3	11657.5	11520.5	11062.5	10432.3	9719.8
10°	10909.9	10945.1	11191.7	11512.7	11959.0	12268.2	12229.1	12193.8	11692.8	10831.6	9950.8
12.5°	10099.5	10021.3	10166.1	10440.1	11109.5	11857.2	12362.2	12366.1	12236.9	11469.6	10119.1
15°	9641.5	9696.3	9735.5	9864.7	10369.6	11234.8	12123.4	12385.6	12953.3	11919.8	10385.3
17.5°	9935.1	9751.1	9743.3	9774.6	10033.0	10682.8	11681.0	12131.2	13344.7	12499.2	10714.1
20°	10318.8	10314.8	10205.2	10166.1	10162.2	10741.5	11391.3	12002.0	13552.2	13250.8	11046.9
22.5°	10992.1	10992.1	10812.0	10725.9	10541.9	11015.5	11430.5	11845.4	13896.7	13767.5	11207.4
25°	12119.5	11935.5	11626.2	11414.8	11309.1	11477.5	11845.4	12217.3	14198.1	14315.5	11540.1
27.5°	13160.7	12871.0	12718.4	12354.3	12213.4	12115.5	12452.2	12828.0	14550.4	15168.9	11720.2
30°	14342.9	14292.0	14018.0	13548.3	13199.9	13019.8	13329.0	13700.9	15196.3	16041.8	12135.1
32.5°	16456.8	15994.9	15623.0	15047.5	14479.9	14096.3	14401.6	14648.3	16268.9	16953.9	12589.2
35°	18739.0	18590.2	17948.2	16910.9	16041.8	15697.4	15877.4	16061.4	17517.6	18347.5	13352.5
37.5°	20982.0	20778.4	20250.0	19377.0	18320.1	17619.4	17748.6	17963.9	18919.0	20226.5	14284.2
40°	22594.8	22344.3	22078.1	21948.9	20899.8	19940.7	19866.4	19921.2	20813.7	21988.0	15317.6
42.5°	22712.2	23021.5	23103.7	23624.3	23377.7	22590.9	22132.9	22144.6	22622.2	23730.0	16362.8
45°	22465.6	22179.9	22786.6	24207.6	25021.8	25389.8	24618.6	24520.8	23741.8	24740.0	16883.5
47.5°	19878.1	19956.4	20982.0	23229.0	25581.6	27225.7	27045.6	26720.7	24340.7	24704.7	16801.3
50°	15713.0	16186.7	17137.9	19936.8	24015.8	27515.4	28576.2	27824.6	23984.5	23733.9	15963.5
52.5°	10463.6	10659.3	11285.7	14898.8	19310.5	24595.1	26814.7	26986.9	23655.6	22461.7	14902.7
55°	4658.3	4642.7	5523.4	7782.1	12115.5	18715.5	21909.7	22958.8	22391.2	21166.0	13869.3
57.5°	1972.9	2039.5	2399.6	3362.6	5957.9	11293.5	14844.0	15763.9	17220.1	17380.6	10639.8
60°	1334.9	1342.7	1440.6	1683.3	2493.6	5304.2	7786.0	8889.9	9931.2	9860.8	5644.8
62.5°	1049.1	1076.5	1150.9	1248.7	1479.7	2407.4	3484.0	4098.5	4165.1	3503.5	2141.3
65°	896.4	900.3	974.7	1056.9	1158.7	1401.4	1679.3	1710.7	1730.2	1667.6	1573.6
67.5°	739.9	747.7	806.4	900.3	994.3	1072.6	1150.9	1190.0	1280.1	1456.2	1432.7
70°	587.2	598.9	649.8	728.1	814.2	861.2	959.1	994.3	1076.5	1213.5	1268.3
72.5°	446.3	450.2	493.2	548.0	626.3	673.3	755.5	794.7	849.5	966.9	1017.8
75°	321.0	332.7	364.1	391.5	403.2	434.5	512.8	555.9	634.2	685.0	689.0
77.5°	168.3	176.2	184.0	184.0	223.1	281.8	332.7	356.2	411.0	450.2	430.6
80°	66.5	70.5	90.0	121.4	156.6	203.6	238.8	250.5	297.5	321.0	332.7
82.5°	39.1	43.1	58.7	86.1	113.5	144.8	172.2	184.0	215.3	242.7	250.5
85°	19.6	23.5	35.2	54.8	74.4	90.0	86.1	82.2	82.2	78.3	82.2
87.5°	7.8	7.8	11.7	11.7	11.7	15.7	19.6	19.6	19.6	23.5	23.5
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°	9156.1	9156.1	9156.1	9156.1	9156.1	9156.1	9156.1	9156.1	9156.1	9156.1	9156.1
2.5°	9167.9	9011.3	8866.5	8600.3	8310.6	8228.4	7891.7	7770.4	7684.3	7582.5	7551.2
5°	9214.9	9007.4	8541.6	8005.3	7578.6	7030.5	6670.4	6282.9	6001.0	5930.5	5911.0
7.5°	9312.7	8956.5	8154.0	7343.7	6470.8	5727.0	5159.4	4854.0	4583.9	4568.3	4540.9
10°	9422.3	8803.8	7731.2	6459.0	5343.4	4654.4	4313.8	4180.7	4114.2	4098.5	4090.7
12.5°	9512.4	8772.5	7257.6	5597.8	4544.8	4129.9	4028.1	4016.3	4043.7	4051.6	4067.2
15°	9551.5	8647.2	6686.1	4826.6	4047.6	3895.0	3938.0	3985.0	4004.6	4055.5	4016.3
17.5°	9625.9	8486.7	5981.4	4216.0	3769.7	3797.1	3871.5	3926.3	3957.6	3992.8	3942.0
20°	9665.0	8341.9	5319.9	3851.9	3671.8	3722.7	3824.5	3867.6	3906.7	3922.4	3863.7
22.5°	9629.8	8044.4	4736.6	3558.3	3577.9	3644.4	3734.5	3781.5	3758.0	3695.3	3660.1
25°	9535.8	7625.5	4129.9	3370.4	3444.8	3562.2	3632.7	3597.5	3554.4	3519.2	3507.4
27.5°	9531.9	7112.7	3691.4	3198.2	3331.3	3491.8	3468.3	3437.0	3456.5	3429.1	3397.8
30°	9551.5	6615.6	3331.3	3100.3	3249.1	3327.4	3354.8	3323.5	3346.9	3296.1	3311.7
32.5°	9449.7	6130.2	3096.4	2986.8	3151.2	3147.3	3237.3	3260.8	3206.0	3100.3	3116.0
35°	9492.8	5738.7	2896.8	2935.9	3041.6	3041.6	3112.1	3084.7	2939.8	2877.2	2892.9
37.5°	9790.3	5355.1	2798.9	2865.5	2935.9	2967.2	2943.7	2826.3	2791.1	2791.1	2798.9
40°	10072.1	5026.3	2740.2	2849.8	2838.1	2857.6	2685.4	2697.1	2697.1	2701.0	2681.5
42.5°	10322.7	4803.2	2693.2	2755.8	2775.4	2673.6	2567.9	2556.2	2583.6	2579.7	2564.0
45°	10412.7	4619.2	2626.7	2650.2	2665.8	2497.5	2446.6	2423.1	2454.4	2466.2	2481.8
47.5°	10068.2	4466.5	2552.3	2505.3	2474.0	2364.4	2297.8	2254.8	2293.9	2360.5	2376.1
50°	9625.9	4266.9	2434.9	2344.8	2278.3	2231.3	2184.3	2141.3	2168.7	2215.6	2203.9
52.5°	8972.2	3953.7	2286.1	2192.1	2078.6	2090.4	2047.3	2023.8	2039.5	2039.5	2027.7
55°	8040.5	3249.1	2035.6	1969.0	1875.1	1906.4	1914.2	1882.9	1851.6	1879.0	1855.5
57.5°	5488.2	2293.9	1816.4	1816.4	1722.4	1765.5	1761.5	1687.2	1612.8	1620.6	1605.0
60°	3174.7	1828.1	1675.4	1659.8	1561.9	1597.1	1605.0	1554.1	1440.6	1448.4	1432.7
62.5°	1804.6	1561.9	1464.0	1440.6	1421.0	1452.3	1452.3	1385.8	1287.9	1295.7	1280.1
65°	1534.5	1448.4	1307.5	1303.5	1295.7	1303.5	1272.2	1201.8	1115.6	1080.4	1084.3
67.5°	1393.6	1338.8	1201.8	1166.5	1143.0	1139.1	1080.4	1013.9	974.7	943.4	939.5
70°	1221.3	1178.3	1076.5	1029.5	1006.0	951.2	892.5	849.5	794.7	779.0	794.7
72.5°	966.9	963.0	923.8	872.9	822.1	779.0	728.1	669.4	618.5	606.8	579.4
75°	669.4	677.2	685.0	677.2	634.2	579.4	520.6	473.7	411.0	375.8	368.0
77.5°	438.4	450.2	461.9	446.3	418.9	368.0	328.8	270.1	223.1	195.7	191.8
80°	321.0	336.7	344.5	332.7	301.4	262.3	219.2	172.2	137.0	113.5	113.5
82.5°	246.6	262.3	270.1	250.5	219.2	187.9	156.6	121.4	93.9	74.4	70.5
85°	86.1	82.2	97.9	101.8	121.4	113.5	93.9	70.5	54.8	39.1	35.2
87.5°	23.5	23.5	27.4	27.4	23.5	19.6	19.6	19.6	15.7	11.7	11.7
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)