

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: P528558

Luminaire Tested: **GALN-SA3C-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13468 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

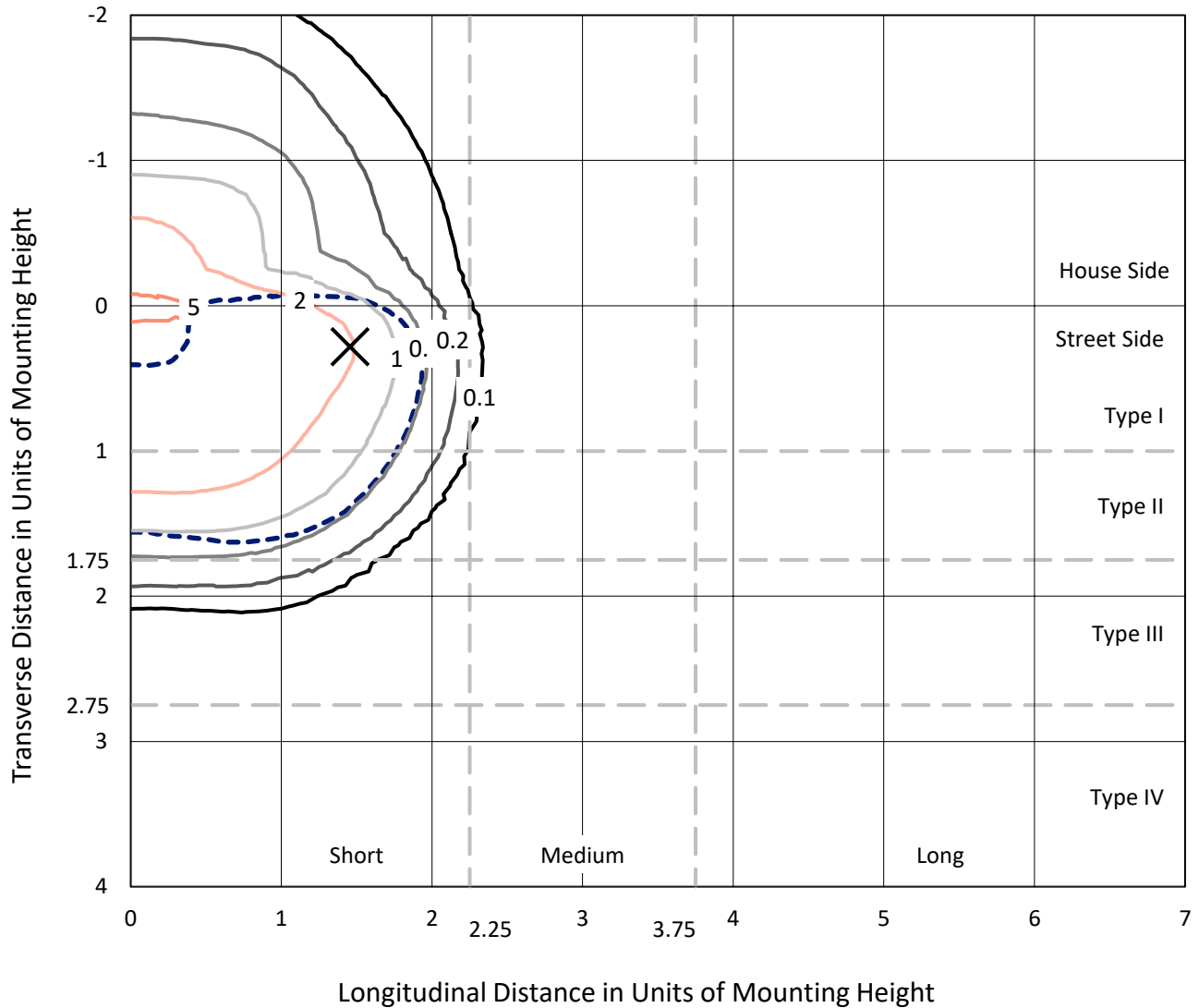
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

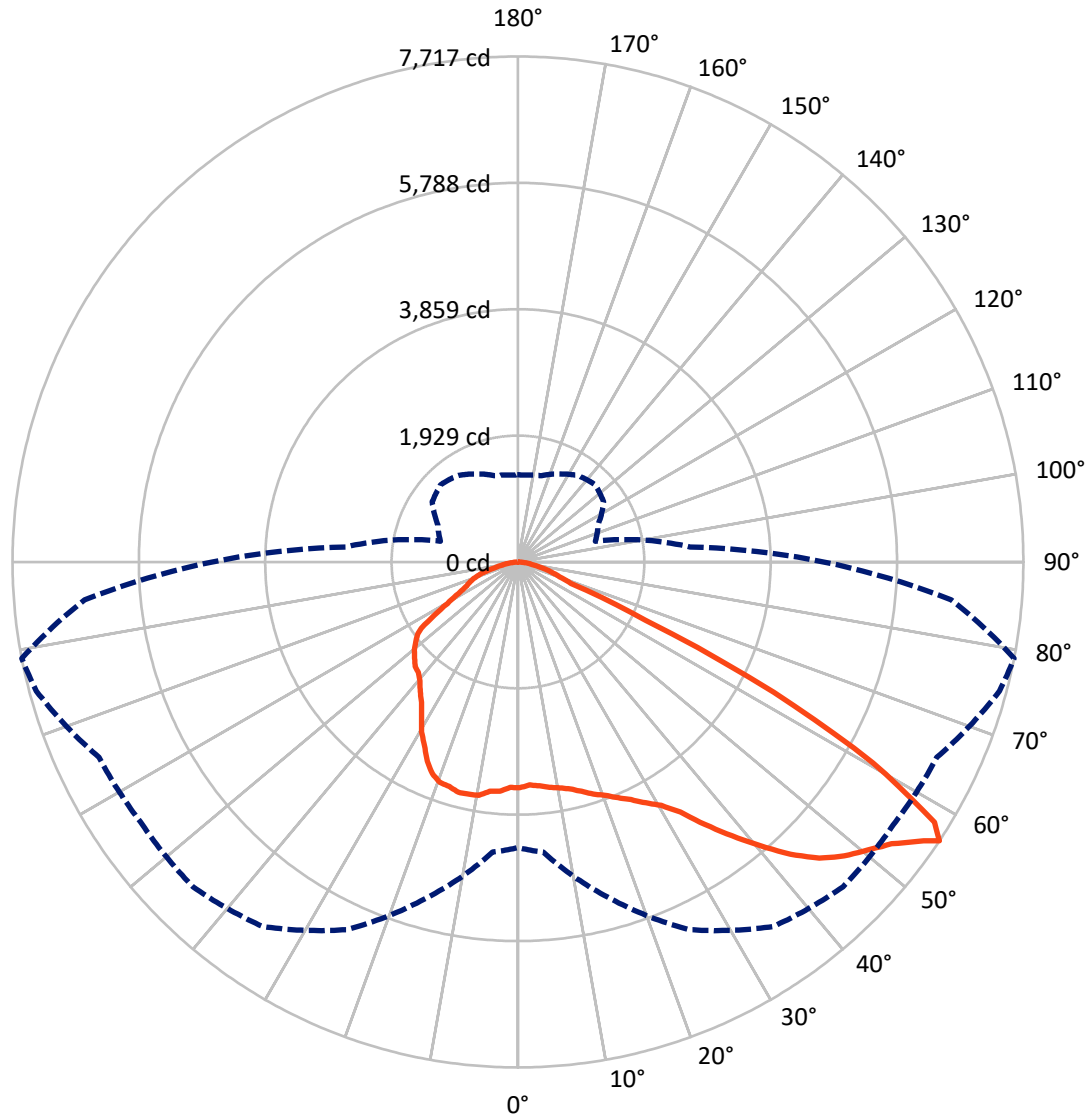
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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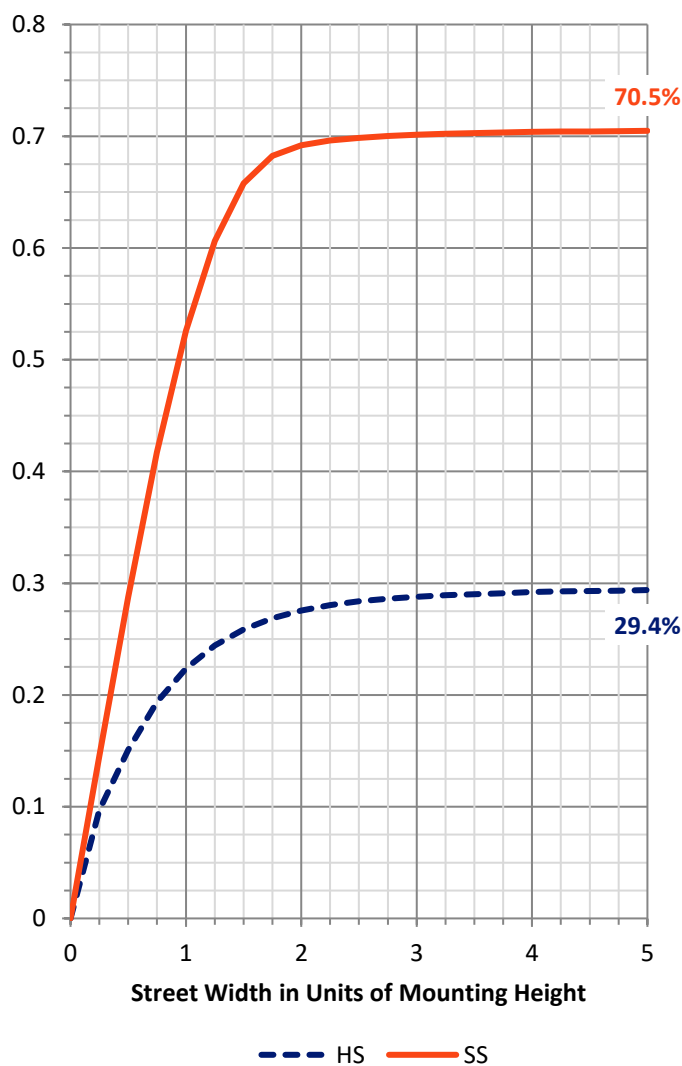
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3977.4	0.0	3977.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	9490.6	0.0	9490.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	13468.0	0.0	13468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.3	2.3
10°-20°	857.4	6.4
20°-30°	1466.9	10.9
30°-40°	2248.2	16.7
40°-50°	3038.4	22.6
50°-60°	3489.7	25.9
60°-70°	1590.7	11.8
70°-80°	392.2	2.9
80°-90°	71.3	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°	13468.0	100.0
0°-180°	13468.0	100.0

Coefficient of Utilization



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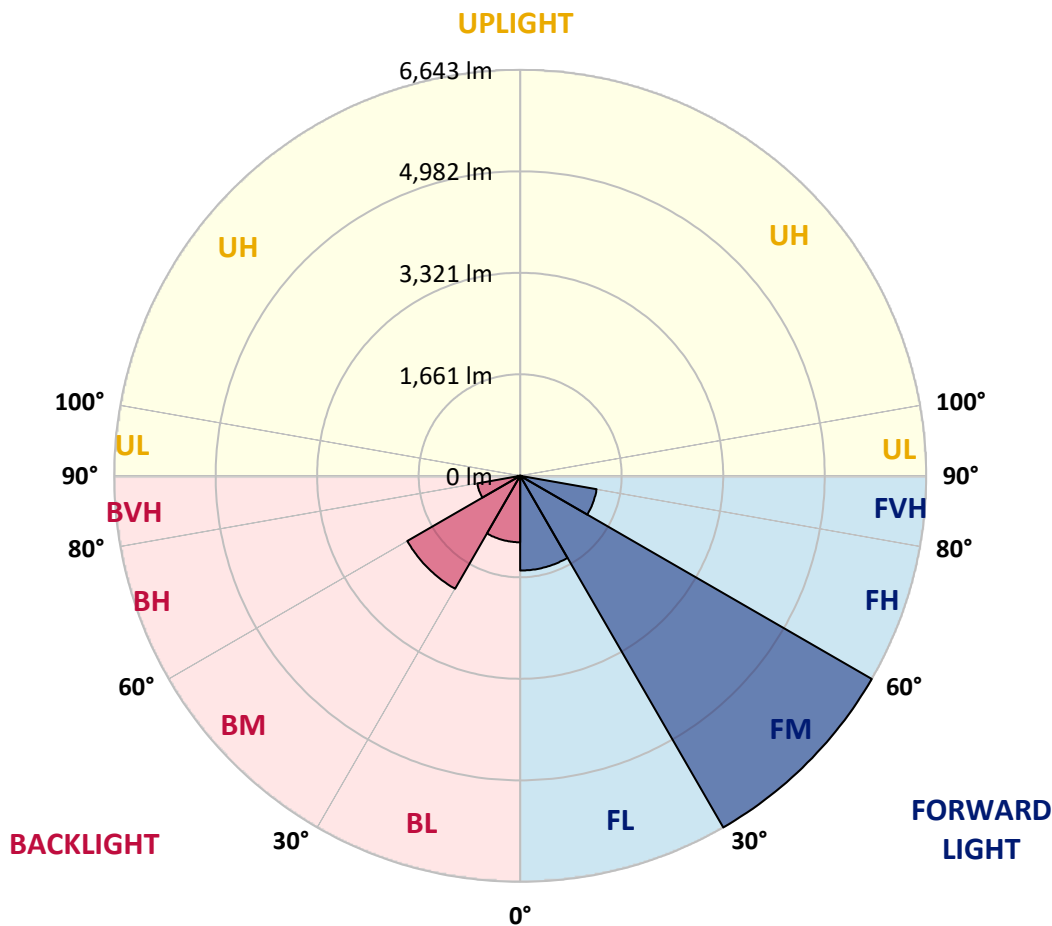
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1549.6	11.5			
FM (30°-60°)	6642.8	49.3			
FH (60°-80°)	1269.7	9.4			G1/1800
FVH (80°-90°)	28.5	0.2			G1/100
BL (0°-30°)	1088.0	8.1	B3/2500		
BM (30°-60°)	2133.4	15.8	B2/2500		
BH (60°-80°)	713.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	42.8	0.3			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°	55°	65°	75°	79°	85°
0°	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9
2.5°	3278.2	3269.8	3289.9	3305.0	3323.5	3346.9	3358.7	3365.4	3424.1	3409.0	3454.3
5°	3207.7	3185.9	3201.0	3212.7	3244.6	3273.1	3305.0	3355.3	3409.0	3432.5	3487.9
7.5°	3145.6	3133.9	3130.5	3138.9	3182.5	3219.4	3274.8	3348.6	3435.9	3474.4	3506.3
10°	3043.3	3026.5	3051.7	3107.0	3118.8	3196.0	3259.7	3365.4	3440.9	3508.0	3602.0
12.5°	2998.0	2981.2	2986.2	3018.1	3100.3	3174.1	3249.6	3368.8	3528.1	3555.0	3680.8
15°	3070.1	3053.4	3058.4	3050.0	3128.8	3167.4	3286.5	3435.9	3588.5	3633.8	3768.0
17.5°	3234.5	3236.2	3214.4	3196.0	3177.5	3259.7	3341.9	3476.1	3612.0	3726.1	3826.8
20°	3548.3	3492.9	3449.3	3345.3	3316.7	3352.0	3456.0	3585.2	3707.6	3801.6	3915.7
22.5°	3789.8	3794.9	3732.8	3561.7	3499.6	3514.7	3603.6	3709.3	3843.5	3910.6	4041.5
25°	4140.5	4105.3	4038.1	3902.3	3763.0	3774.8	3840.2	3935.8	3972.7	4019.7	4162.3
27.5°	4460.9	4471.0	4338.4	4210.9	4038.1	4004.6	4122.0	4138.8	4076.7	4165.6	4214.3
30°	4786.4	4778.0	4690.8	4541.4	4372.0	4378.7	4430.7	4348.5	4263.0	4311.6	4345.2
32.5°	5123.6	5028.0	5024.6	4890.4	4761.2	4699.1	4635.4	4675.7	4543.1	4553.2	4521.3
35°	5393.7	5407.1	5329.9	5234.3	5170.6	5061.5	4887.0	4959.2	4934.0	4922.3	4784.7
37.5°	5590.0	5538.0	5576.6	5544.7	5484.3	5348.4	5167.2	5236.0	5247.7	5304.8	5145.4
40°	5751.0	5729.2	5831.6	5848.3	5806.4	5512.8	5187.3	5392.0	5568.2	5692.3	5502.7
42.5°	5828.2	5875.2	5982.6	6111.7	6017.8	5704.1	5291.4	5511.1	5903.7	6100.0	5841.6
45°	5932.2	5871.8	6031.2	6267.8	6269.4	5865.1	5392.0	5672.2	6165.4	6450.6	6073.2
47.5°	5826.5	5856.7	6021.1	6321.4	6398.6	6034.6	5663.8	5900.4	6454.0	6707.3	6287.9
50°	5590.0	5650.4	5950.7	6262.7	6495.9	6214.1	5975.8	6147.0	6720.7	6913.7	6323.1
52.5°	5343.4	5376.9	5846.7	6308.0	6539.5	6445.6	6393.6	6487.5	7046.2	7146.9	6366.7
55°	4672.3	4831.7	5502.7	6287.9	6752.6	6863.3	6823.1	6960.6	7415.3	7515.9	6605.0
56°	4361.9	4445.8	5296.4	6193.9	6794.6	7016.0	6995.9	7057.9	7611.6	7717.3	6641.9
57.5°	3788.2	3794.9	4516.3	5777.9	6636.9	7061.3	7041.2	7089.8	7573.0	7500.8	6318.1
60°	2370.5	2474.6	3073.5	4444.1	5643.7	6551.3	6665.4	6274.5	6385.2	6232.5	4915.6
62.5°	1228.1	1213.0	1610.6	2598.7	3746.2	4690.8	4796.4	4778.0	4606.9	4383.7	3211.1
65°	612.3	615.7	842.2	1286.8	1919.3	2456.1	2751.4	2783.2	2328.6	2142.4	1523.3
67.5°	444.6	461.4	605.6	786.8	904.3	1011.6	1239.8	1216.3	921.0	875.7	812.0
70°	345.6	360.7	491.6	600.6	545.2	545.2	593.9	614.0	656.0	674.4	696.2
72.5°	251.7	263.4	375.8	414.4	357.3	384.2	444.6	491.6	535.2	541.9	567.1
75°	172.8	182.9	246.6	228.2	214.7	265.1	325.5	369.1	401.0	417.7	432.8
77.5°	112.4	115.8	140.9	119.1	137.6	171.1	211.4	248.3	280.2	293.6	296.9
80°	50.3	55.4	60.4	75.5	95.6	122.5	151.0	181.2	201.3	206.4	216.4
82.5°	28.5	28.5	36.9	53.7	70.5	88.9	109.0	130.9	154.3	159.4	157.7
85°	15.1	15.1	21.8	31.9	43.6	52.0	50.3	52.0	55.4	63.8	62.1
87.5°	5.0	5.0	6.7	6.7	8.4	10.1	8.4	11.7	15.1	15.1	15.1
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°	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9	3445.9
2.5°	3440.9	3456.0	3435.9	3479.5	3479.5	3471.1	3429.2	3442.6	3452.6	3452.6	3461.0
5°	3506.3	3501.3	3514.7	3462.7	3430.8	3419.1	3350.3	3316.7	3288.2	3286.5	3261.4
7.5°	3543.2	3529.8	3524.8	3486.2	3345.3	3259.7	3112.1	3026.5	3008.1	2942.6	2967.8
10°	3602.0	3627.1	3602.0	3392.2	3196.0	2999.7	2855.4	2722.9	2670.8	2628.9	2603.7
12.5°	3722.7	3711.0	3565.0	3281.5	3006.4	2773.2	2558.4	2419.2	2367.2	2330.3	2326.9
15°	3825.1	3766.4	3543.2	3107.0	2711.1	2462.8	2286.7	2187.7	2164.2	2167.5	2182.6
17.5°	3860.3	3820.0	3429.2	2925.9	2491.3	2199.4	2117.2	2102.1	2123.9	2149.1	2155.8
20°	3915.7	3851.9	3382.2	2679.2	2219.6	2035.0	2030.0	2083.7	2123.9	2160.8	2165.9
22.5°	4031.4	3870.4	3229.5	2446.0	2033.3	1986.4	2035.0	2080.3	2142.4	2172.6	2145.7
25°	4065.0	3830.1	3014.8	2165.9	1915.9	1956.2	2008.2	2070.2	2113.9	2130.6	2142.4
27.5°	4093.5	3768.0	2724.5	1979.6	1879.0	1954.5	2008.2	2060.2	2083.7	2098.8	2112.2
30°	4174.0	3749.6	2472.9	1855.5	1855.5	1920.9	1989.7	2003.1	2035.0	2053.5	2077.0
32.5°	4214.3	3622.1	2214.5	1776.6	1832.0	1937.7	1942.7	1967.9	1969.6	1984.7	1959.5
35°	4320.0	3531.5	1974.6	1719.6	1842.1	1920.9	1946.1	1931.0	1848.8	1808.5	1816.9
37.5°	4397.2	3486.2	1801.8	1712.9	1843.8	1939.4	1952.8	1838.7	1753.2	1686.1	1702.8
40°	4605.2	3373.8	1671.0	1701.2	1858.9	1959.5	1922.6	1798.5	1644.1	1575.3	1563.6
42.5°	4764.6	3293.3	1588.8	1687.7	1870.6	1988.0	1907.5	1717.9	1560.2	1496.5	1513.3
45°	4949.1	3274.8	1545.1	1691.1	1890.7	2003.1	1889.1	1655.9	1488.1	1462.9	1457.9
47.5°	5014.5	3142.3	1498.2	1662.6	1885.7	1998.1	1827.0	1608.9	1461.2	1464.6	1478.0
50°	4905.5	3006.4	1462.9	1603.8	1852.1	1952.8	1729.7	1546.8	1446.1	1488.1	1511.6
52.5°	4766.3	2867.1	1390.8	1525.0	1783.4	1882.3	1684.4	1543.5	1431.0	1417.6	1422.7
55°	4808.2	2753.1	1290.1	1417.6	1672.6	1751.5	1634.0	1511.6	1394.1	1343.8	1360.6
56°	4672.3	2635.6	1224.7	1350.5	1597.1	1667.6	1608.9	1483.1	1363.9	1330.4	1330.4
57.5°	4288.1	2241.4	1139.1	1243.2	1437.8	1521.6	1560.2	1466.3	1330.4	1271.7	1273.3
60°	3162.4	1593.8	1021.7	1095.5	1191.1	1258.3	1437.8	1419.3	1246.5	1206.2	1191.1
62.5°	1949.4	1164.3	937.8	966.3	1015.0	1070.4	1254.9	1285.1	1157.6	1114.0	1103.9
65°	1092.2	890.8	874.1	885.8	909.3	937.8	1041.8	1108.9	1021.7	954.6	951.2
67.5°	798.6	796.9	810.3	820.4	830.4	830.4	855.6	882.5	870.7	817.0	812.0
70°	709.7	714.7	724.8	726.4	729.8	718.0	697.9	689.5	702.9	669.4	662.7
72.5°	585.5	602.3	614.0	615.7	597.2	582.2	555.3	526.8	516.7	510.0	508.3
75°	449.6	461.4	466.4	464.7	458.0	436.2	404.3	375.8	357.3	337.2	347.3
77.5°	303.7	320.4	328.8	328.8	318.8	285.2	270.1	248.3	229.8	208.0	211.4
80°	213.1	224.8	238.2	236.6	219.8	203.0	181.2	161.1	146.0	129.2	127.5
82.5°	159.4	166.1	172.8	169.4	157.7	140.9	125.8	107.4	90.6	78.9	78.9
85°	57.0	62.1	75.5	78.9	85.6	85.6	72.1	60.4	48.7	40.3	40.3
87.5°	16.8	16.8	18.5	18.5	16.8	18.5	15.1	16.8	18.5	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)