

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: P533780

Luminaire Tested: **GALN-SA9B-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533780
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-SA9B-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA 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: 37910 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

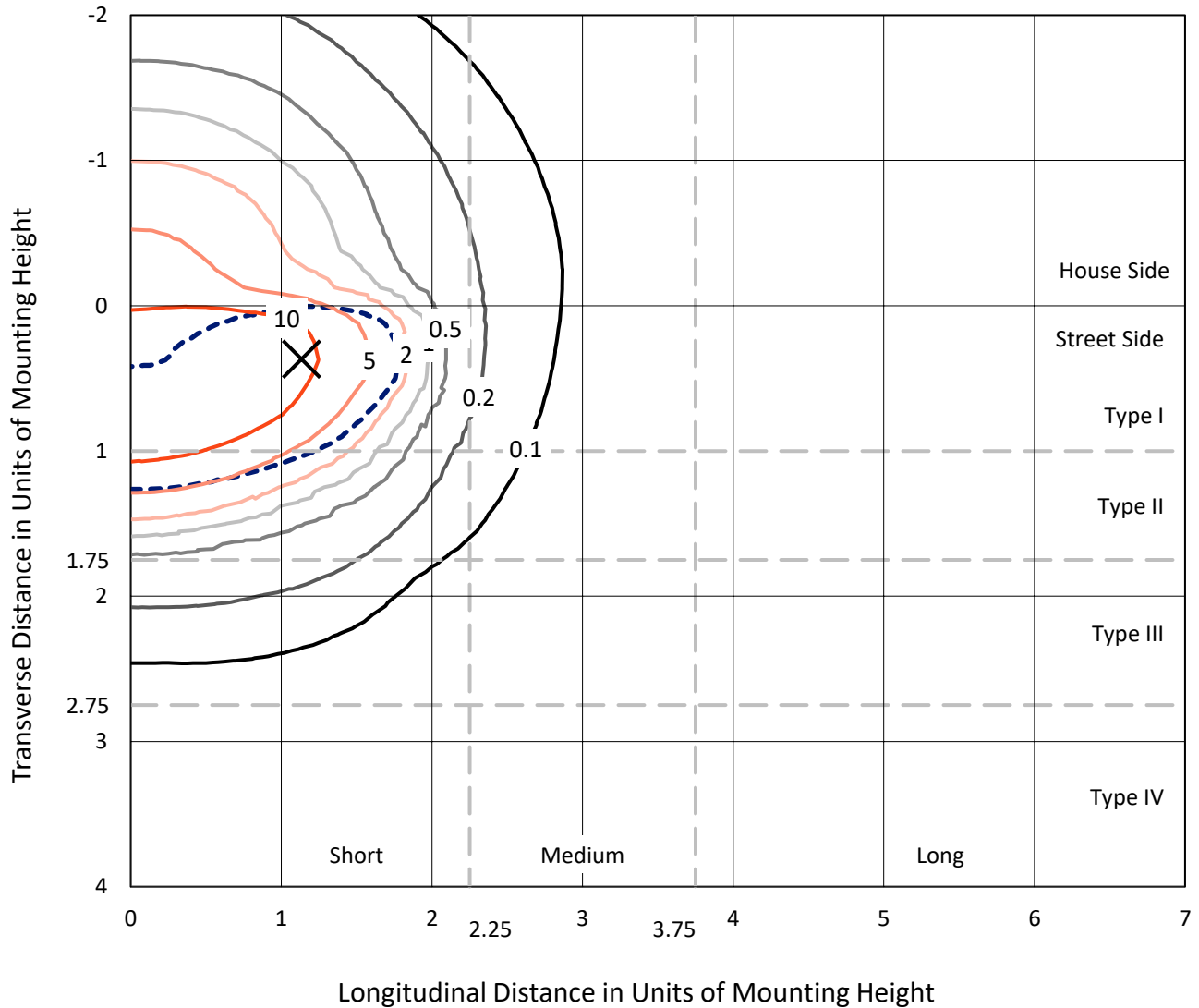
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

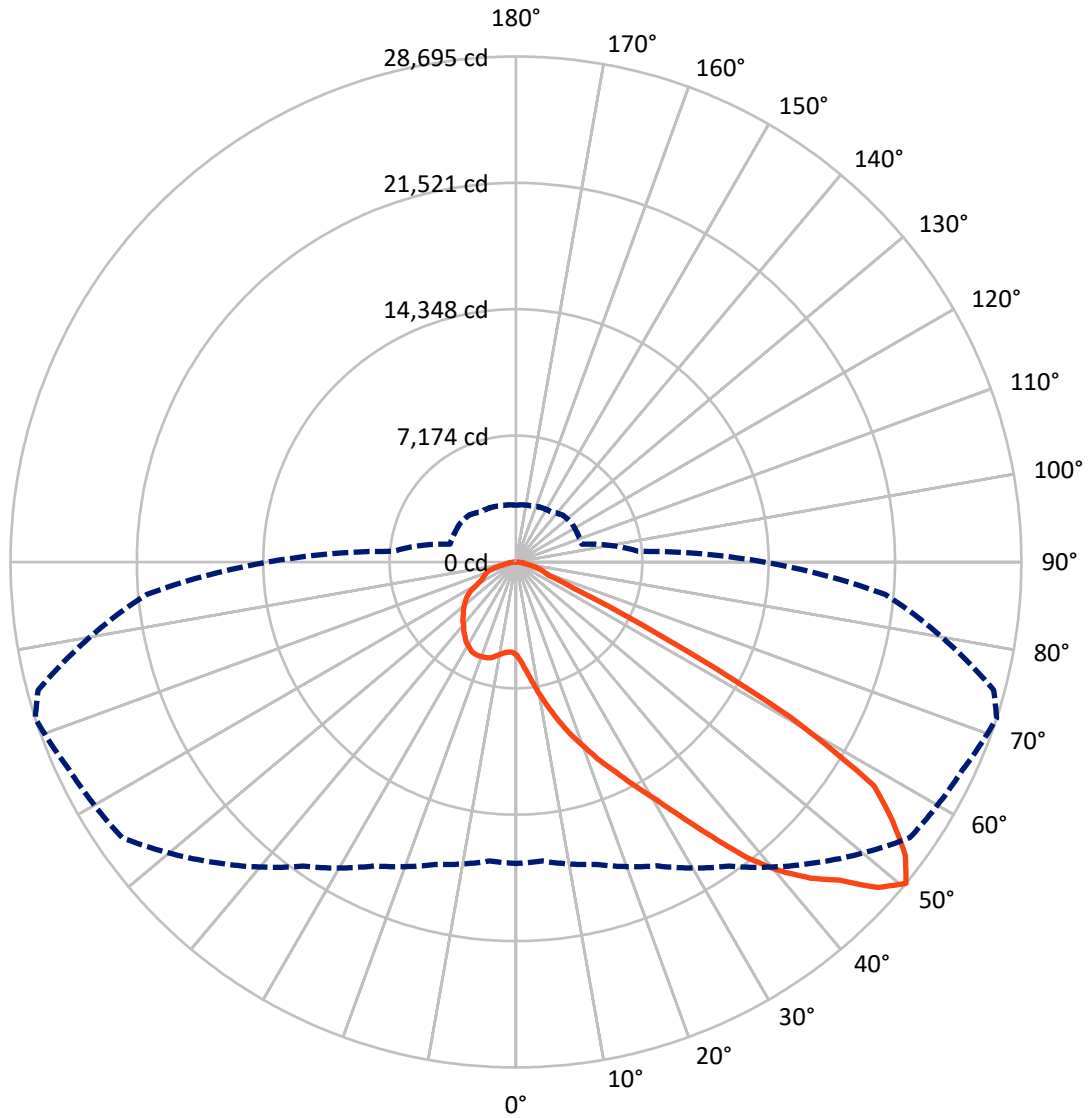
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - N/A

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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	8685.4	0.0	8685.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	29224.6	0.0	29224.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	37910.0	0.0	37910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.8	1.6
10°-20°	2320.6	6.1
20°-30°	4499.5	11.9
30°-40°	7454.1	19.7
40°-50°	10429.8	27.5
50°-60°	8798.9	23.2
60°-70°	2681.9	7.1
70°-80°	940.9	2.5
80°-90°	163.6	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°	37910.0	100.0
0°-180°	37910.0	100.0

Coefficient of Utilization

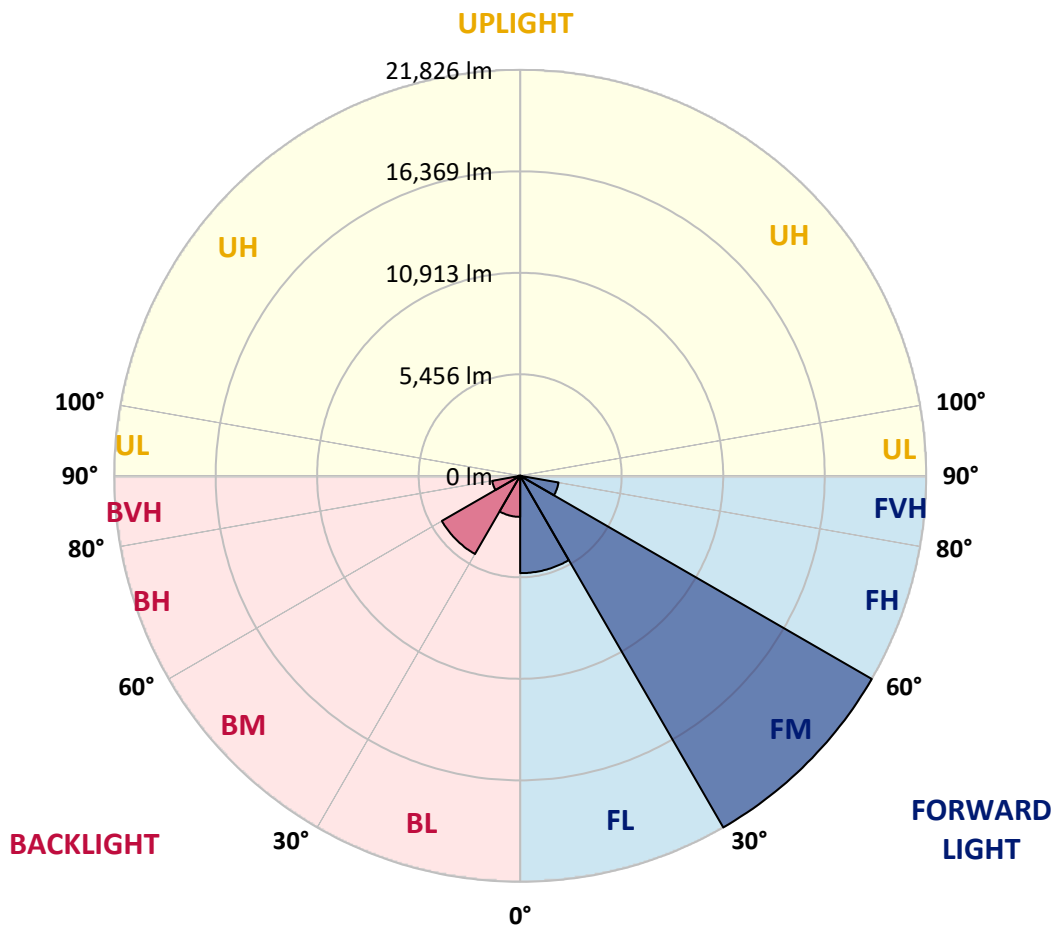


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5232.9	13.8			
FM (30°-60°)	21825.8	57.6			
FH (60°-80°)	2092.6	5.5			G2/5000
FVH (80°-90°)	73.3	0.2			G1/100
BL (0°-30°)	2207.9	5.8	B3/2500		
BM (30°-60°)	4857.0	12.8	B3/5000		
BH (60°-80°)	1530.2	4.0	B3/2500		G3/2500
BVH (80°-90°)	90.3	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4
2.5°	6787.9	6745.7	6619.0	6576.8	6426.7	6154.6	6060.8	5784.0	5666.7	5558.9	5432.2
5°	8584.6	8387.5	8373.5	8134.2	7787.1	7585.4	6984.9	6581.5	6210.9	6023.3	5676.1
7.5°	9729.2	9733.9	9733.9	9536.8	9260.1	8748.7	8209.3	7482.2	6923.9	6647.2	6056.1
10°	10817.5	10723.7	10672.1	10653.3	10465.7	9968.4	9391.4	8490.7	7726.1	7402.4	6342.3
12.5°	11586.8	11507.1	11624.3	11563.4	11427.3	11103.6	10559.5	9532.1	8575.2	8138.9	6802.0
15°	11952.7	12009.0	12102.8	12271.7	12210.7	12088.8	11488.3	10601.7	9489.9	8997.4	7210.1
17.5°	12515.6	12360.8	12473.4	12684.5	12853.4	12797.1	12454.7	11375.7	10395.3	9790.2	7758.9
20°	12909.7	12820.6	12876.8	13120.8	13247.4	13566.4	13388.2	12389.0	11263.1	10625.2	8406.3
22.5°	14035.5	13904.2	13721.2	13758.8	13805.7	14030.8	14073.1	13500.7	12271.7	11596.2	9020.8
25°	15424.1	15302.1	15086.3	14865.8	14729.8	14687.6	14833.0	14373.3	13238.1	12539.1	9682.3
27.5°	16953.3	16746.9	16610.9	16155.9	15790.0	15733.7	15663.3	15414.7	14382.7	13627.4	10428.1
30°	18440.4	18276.2	18093.3	17366.1	16986.2	16925.2	16578.1	16648.4	15625.8	14786.1	11272.5
32.5°	19566.2	19580.3	19162.8	18614.0	18257.4	17933.8	17807.1	18008.8	17220.7	16545.2	12215.4
35°	20476.3	20518.5	20119.8	19622.5	19237.9	19463.0	19406.7	19500.6	19125.3	18299.7	13313.1
37.5°	21362.9	21151.8	20724.9	20485.7	20284.0	20654.6	21133.0	21212.8	21283.1	20312.1	14589.1
40°	21508.3	21527.1	21278.5	21447.3	21194.0	21752.3	22864.0	22760.8	23047.0	22197.9	15972.9
42.5°	21301.9	21344.1	21442.6	21681.9	22291.7	22962.5	24613.8	24191.6	24538.7	23783.5	17319.2
45°	20964.2	20790.6	20912.6	21822.6	22878.1	24369.8	26213.4	25885.0	25772.5	25139.2	18923.6
47.5°	19350.4	19528.7	19908.7	21029.8	22615.4	24613.8	27348.6	27273.6	27611.3	27165.7	20382.5
50°	17112.8	17042.5	17774.3	19036.2	21081.4	24135.3	27287.7	27967.8	28695.0	28075.7	21034.5
52.5°	12815.9	13191.1	13819.7	15386.5	18304.4	21527.1	25955.4	27090.6	27681.7	27550.3	20509.1
55°	8101.4	8214.0	8593.9	10456.3	13083.2	17277.0	22249.5	24881.2	25936.6	26429.2	20026.0
57.5°	3935.8	3724.7	4189.1	5685.5	7557.2	11619.7	17159.7	21672.5	23966.4	24857.7	18975.2
60°	2054.7	2134.4	2317.4	2852.1	3907.6	6032.6	10695.5	14443.6	17947.8	19317.6	14382.7
62.5°	1702.8	1731.0	1853.0	2120.3	2598.8	3471.4	5460.3	7041.2	9152.2	10385.9	8181.1
65°	1444.8	1458.9	1590.3	1768.5	2073.4	2444.0	2809.9	2941.3	3560.5	3654.3	2908.4
67.5°	1205.6	1219.7	1360.4	1529.3	1726.3	1824.8	1918.6	1909.2	1979.6	1951.5	1946.8
70°	928.8	942.9	1088.3	1266.6	1365.1	1308.8	1599.6	1665.3	1693.5	1716.9	1754.4
72.5°	670.8	699.0	811.5	938.2	886.6	1018.0	1318.2	1416.7	1454.2	1468.3	1515.2
75°	487.9	497.2	525.4	487.9	562.9	708.3	928.8	1050.8	1097.7	1111.8	1182.1
77.5°	215.8	220.5	225.2	281.5	361.2	441.0	553.5	652.1	717.7	736.5	755.3
80°	112.6	117.3	145.4	192.3	258.0	323.7	403.4	459.7	501.9	506.6	525.4
82.5°	70.4	75.1	103.2	136.0	182.9	239.2	295.5	342.4	375.3	380.0	384.7
85°	32.8	42.2	61.0	84.4	122.0	154.8	159.5	136.0	145.4	150.1	140.7
87.5°	9.4	14.1	18.8	14.1	18.8	18.8	23.5	28.1	28.1	28.1	32.8
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°	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4	5277.4
2.5°	5361.8	5319.6	5155.4	5094.4	4935.0	4963.1	4878.7	4874.0	4855.2	4850.5	4845.8
5°	5493.2	5361.8	5164.8	5014.7	4925.6	4916.2	4855.2	4855.2	4874.0	4888.0	4855.2
7.5°	5709.0	5558.9	5225.8	5085.1	5005.3	4991.2	4949.0	4916.2	4958.4	4944.3	4906.8
10°	5957.6	5694.9	5343.1	5221.1	5089.8	5056.9	5056.9	5071.0	5000.6	5024.1	4986.6
12.5°	6234.4	5882.5	5493.2	5352.5	5197.6	5178.9	5169.5	5066.3	5103.8	5085.1	4991.2
15°	6586.2	6098.3	5685.5	5446.3	5314.9	5230.5	5108.5	5089.8	5066.3	5019.4	4977.2
17.5°	6966.2	6332.9	5774.6	5474.4	5277.4	5216.4	5122.6	5024.1	4953.7	4963.1	4930.3
20°	7289.8	6548.7	5807.5	5502.6	5249.2	5132.0	4986.6	4925.6	4850.5	4845.8	4841.1
22.5°	7674.5	6839.5	5854.4	5427.5	5164.8	5042.8	4944.3	4836.4	4784.8	4719.2	4752.0
25°	8134.2	6952.1	5863.8	5385.3	5103.8	4888.0	4836.4	4719.2	4700.4	4606.6	4625.3
27.5°	8467.3	7013.1	5788.7	5253.9	4963.1	4798.9	4705.1	4620.7	4587.8	4517.5	4498.7
30°	8912.9	7106.9	5629.2	5089.8	4822.4	4639.4	4583.1	4564.4	4470.5	4395.5	4386.1
32.5°	9419.6	7167.9	5526.0	4920.9	4676.9	4536.2	4564.4	4475.2	4358.0	4292.3	4273.5
35°	9823.0	7191.3	5268.0	4728.5	4578.4	4489.3	4456.5	4437.7	4268.8	4207.8	4160.9
37.5°	10437.5	7139.7	5052.2	4592.5	4470.5	4437.7	4409.6	4282.9	4090.6	4001.4	3935.8
40°	11155.2	7125.7	4775.5	4400.2	4367.3	4404.9	4320.4	4123.4	3856.0	3757.5	3710.6
42.5°	11844.8	7224.2	4601.9	4297.0	4254.8	4268.8	4151.6	3856.0	3724.7	3668.4	3593.3
45°	12998.8	7430.6	4315.7	4137.5	4118.7	4109.3	3968.6	3659.0	3583.9	3513.6	3499.5
47.5°	14040.2	7294.5	4132.8	3973.3	3992.1	3940.5	3640.2	3541.7	3457.3	3386.9	3363.5
50°	14101.2	6970.9	3874.8	3846.6	3851.3	3762.2	3476.0	3410.4	3302.5	3255.6	3222.7
52.5°	13782.2	6440.8	3635.5	3644.9	3659.0	3513.6	3274.3	3227.4	3138.3	3072.6	3053.9
55°	12886.2	5615.1	3401.0	3438.5	3476.0	3199.3	3124.2	3006.9	2936.6	2842.8	2847.4
57.5°	11352.3	4522.1	3072.6	3133.6	3213.3	2908.4	2852.1	2706.7	2603.5	2528.5	2519.1
60°	7608.8	3218.0	2580.1	2603.5	2781.8	2659.8	2655.1	2509.7	2369.0	2303.3	2265.8
62.5°	4489.3	2458.1	2228.2	2204.8	2200.1	2270.5	2387.7	2336.1	2153.2	2026.5	2064.0
65°	2350.2	2125.0	2073.4	1993.7	1946.8	1928.0	2017.1	2040.6	1918.6	1782.6	1773.2
67.5°	1974.9	1974.9	1932.7	1904.6	1838.9	1759.1	1702.8	1627.8	1609.0	1571.5	1524.6
70°	1796.7	1843.6	1829.5	1763.8	1707.5	1618.4	1473.0	1351.0	1233.7	1191.5	1219.7
72.5°	1566.8	1613.7	1613.7	1580.9	1505.8	1369.8	1229.0	1088.3	989.8	914.7	905.4
75°	1205.6	1229.0	1285.3	1247.8	1149.3	1064.9	919.4	774.0	680.2	609.8	595.8
77.5°	769.3	806.9	806.9	802.2	731.8	652.1	558.2	455.0	384.7	333.1	319.0
80°	511.3	534.8	553.5	534.8	487.9	426.9	356.5	286.2	234.6	192.3	182.9
82.5°	375.3	403.4	417.5	398.7	351.8	304.9	253.3	201.7	150.1	117.3	107.9
85°	145.4	150.1	168.9	201.7	197.0	192.3	154.8	112.6	84.4	61.0	56.3
87.5°	37.5	32.8	37.5	37.5	32.8	28.1	28.1	28.1	28.1	14.1	18.8
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)