

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: P532301

Luminaire Tested: **GALN-SA7C-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
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-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21892 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

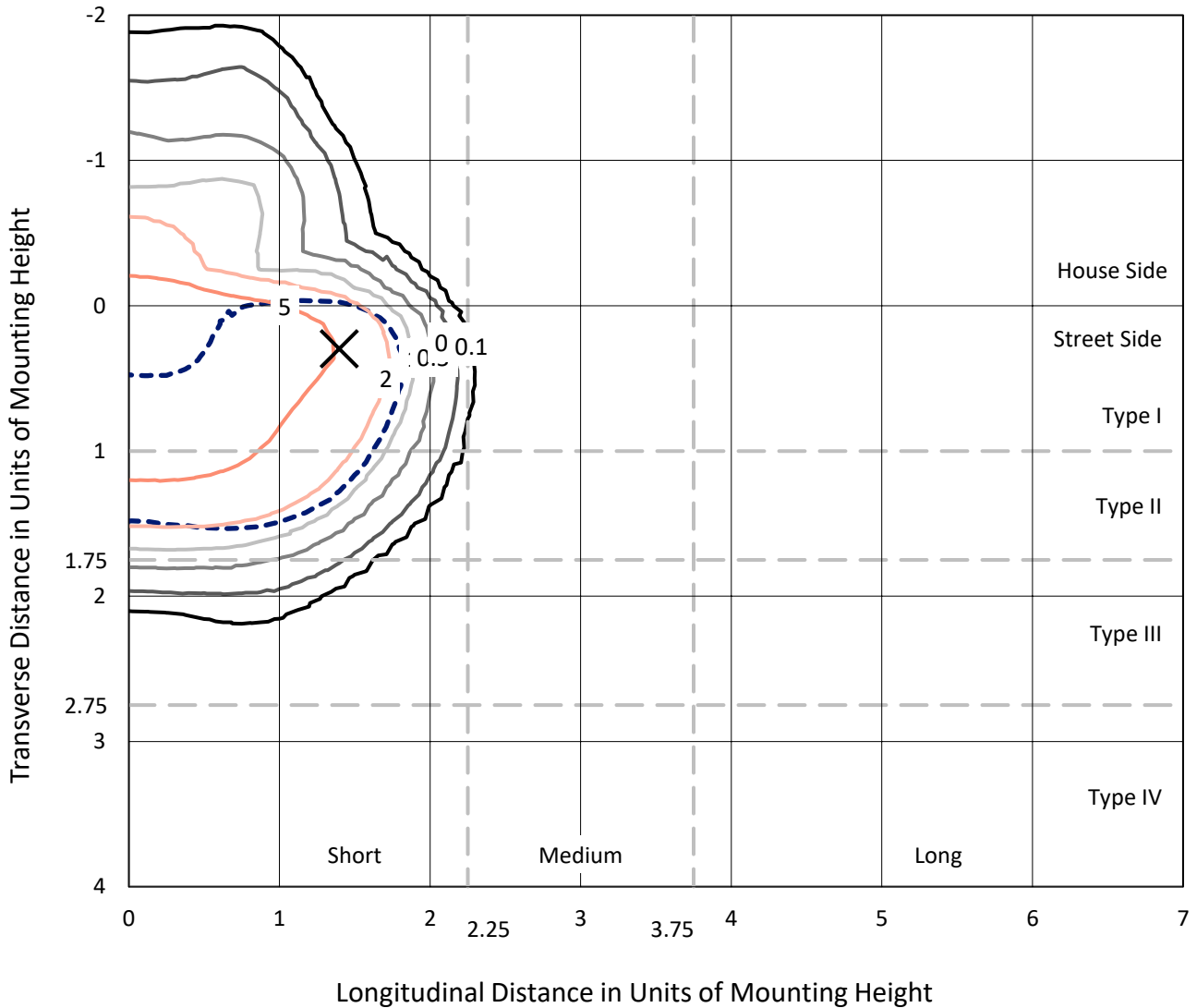
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

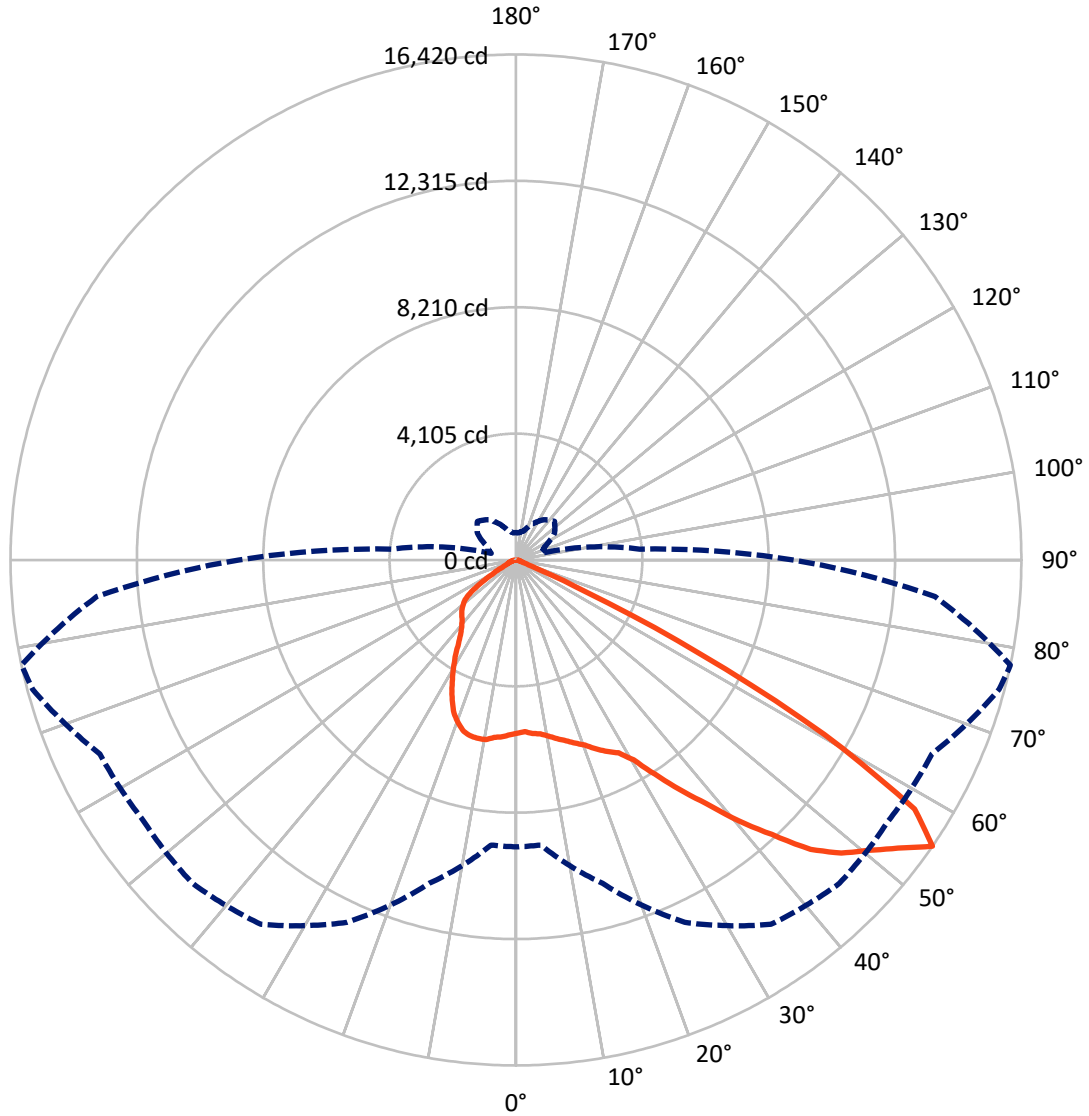
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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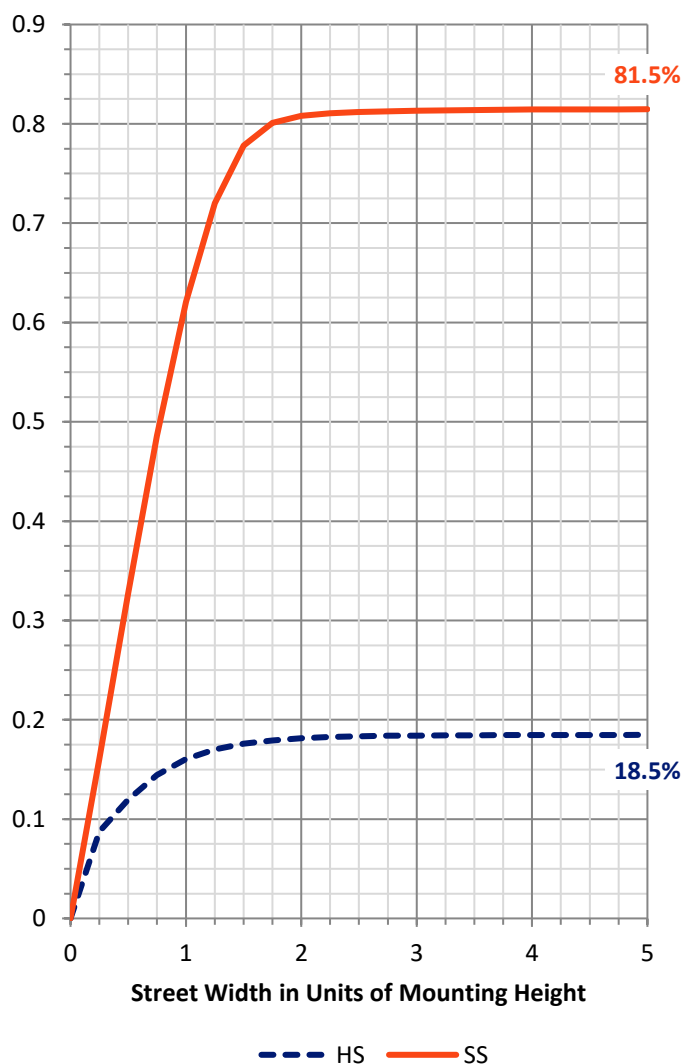
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4066.2	0.0	4066.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17825.8	0.0	17825.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	21892.0	0.0	21892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.9	2.3
10°-20°	1328.2	6.1
20°-30°	2328.1	10.6
30°-40°	3838.8	17.5
40°-50°	5586.0	25.5
50°-60°	6329.5	28.9
60°-70°	1809.7	8.3
70°-80°	140.5	0.6
80°-90°	29.2	0.1
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°	21892.0	100.0
0°-180°	21892.0	100.0

Coefficient of Utilization



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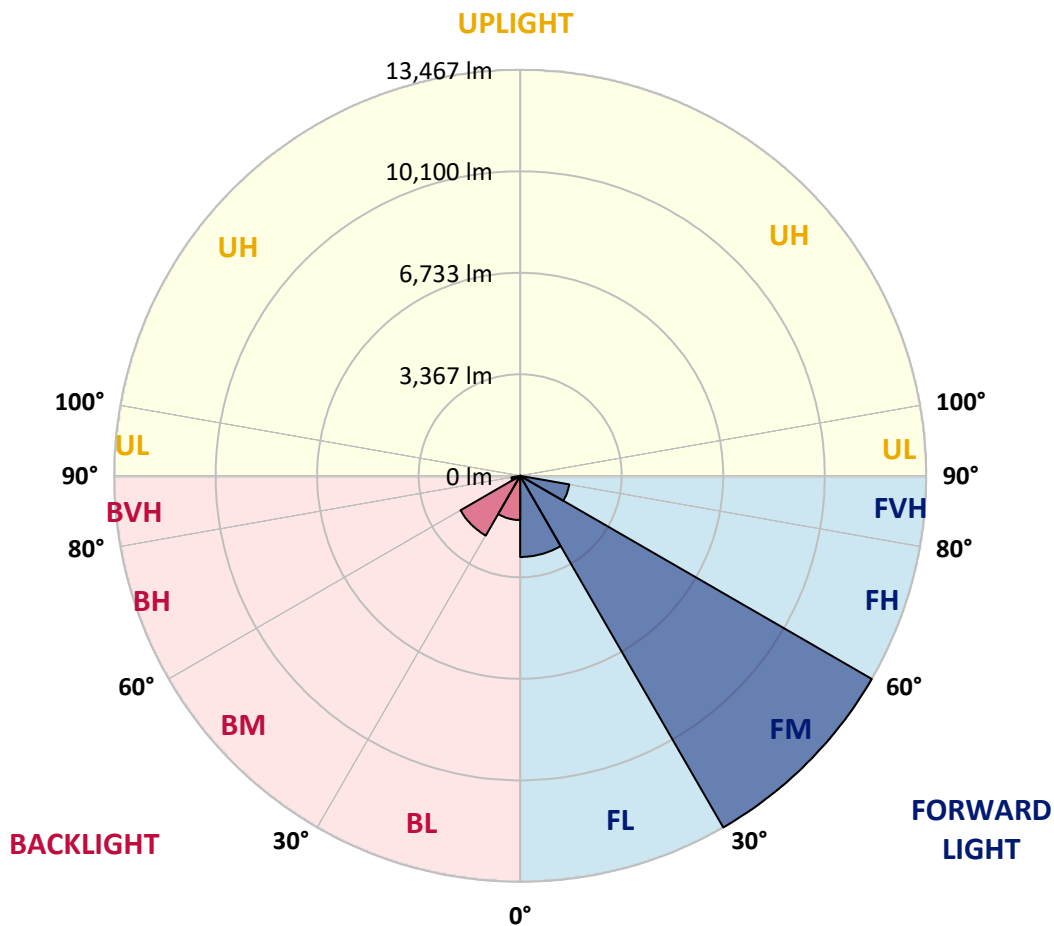
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2691.2	12.3			
FM (30°-60°)	13467.0	61.5			
FH (60°-80°)	1653.4	7.6			G1/1800
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	1467.1	6.7	B3/2500		
BM (30°-60°)	2287.3	10.4	B2/2500		
BH (60°-80°)	296.8	1.4	B1/500		G1/500
BVH (80°-90°)	15.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5628.4	5628.4	5628.4	5628.4	5628.4	5628.4	5628.4	5628.4	5628.4	5628.4	5628.4
2.5°	5291.8	5342.7	5350.5	5413.2	5409.3	5514.9	5546.3	5550.2	5620.6	5585.4	5675.4
5°	5143.1	5115.7	5104.0	5213.6	5244.9	5338.8	5417.1	5464.1	5608.9	5659.8	5753.7
7.5°	5010.0	5010.0	5017.8	5115.7	5104.0	5225.3	5307.5	5452.3	5663.7	5706.7	5820.2
10°	4880.9	4833.9	4892.6	4994.4	5080.5	5135.3	5307.5	5444.5	5691.1	5816.3	5972.9
12.5°	4814.3	4837.8	4845.6	4920.0	5013.9	5178.3	5272.3	5499.3	5886.8	5961.1	6129.4
15°	5233.1	5186.2	5072.6	5006.1	5084.4	5162.7	5397.5	5628.4	5988.5	6094.2	6282.1
17.5°	5718.5	5679.3	5585.4	5405.3	5229.2	5374.0	5558.0	5769.4	6098.1	6254.7	6532.6
20°	6352.6	6289.9	6196.0	5843.7	5691.1	5534.5	5730.2	5980.7	6278.2	6419.1	6704.8
22.5°	7108.0	7108.0	6896.6	6470.0	6152.9	6004.2	6086.4	6231.2	6477.8	6669.6	6951.4
25°	7894.7	7871.2	7679.4	7237.1	6700.9	6524.8	6618.7	6720.5	6787.0	6892.7	7080.6
27.5°	8794.9	8657.9	8415.3	7926.0	7452.4	7111.9	7213.6	7123.6	7041.4	7096.2	7366.3
30°	9405.5	9491.6	9182.4	8712.7	8266.5	7886.9	7906.4	7828.2	7452.4	7530.7	7691.2
32.5°	10039.6	10094.4	9922.2	9663.9	9217.7	8775.4	8614.9	8548.3	8266.5	8301.8	8145.2
35°	10568.0	10673.7	10521.0	10407.5	10278.4	9922.2	9479.9	9695.2	9241.1	9155.0	8748.0
37.5°	11053.4	11022.0	11202.1	11084.7	11057.3	10806.8	10321.4	10364.5	10059.2	10039.6	9569.9
40°	11487.8	11495.7	11742.2	11797.0	11687.4	11241.2	10536.7	10877.2	11123.8	11147.3	10544.5
42.5°	11847.9	11953.6	12165.0	12607.2	12442.9	11699.2	10759.8	11131.6	12047.5	12192.4	11468.3
45°	12161.0	12376.3	12638.6	13033.9	12939.9	12348.9	11315.6	11656.1	13033.9	13413.5	12337.2
47.5°	12180.6	12462.4	12748.2	13335.3	13452.7	12697.3	11891.0	12485.9	13816.7	14227.7	12971.3
50°	12102.3	12251.1	12822.5	13460.5	13726.7	13264.8	12697.3	13182.6	14576.0	14834.4	13292.2
52.5°	11174.7	11288.2	12435.0	13577.9	14219.9	13906.7	13765.8	14153.3	15351.0	15542.8	13593.6
55°	9315.5	9295.9	10873.3	12986.9	14446.9	14857.8	14771.7	14908.7	16247.3	16419.6	13668.0
57.5°	6372.1	6728.3	8090.4	10814.6	13057.4	14634.7	14724.8	14497.7	15202.3	15268.8	11914.5
60°	3436.6	3585.3	4681.2	7217.6	9941.8	11926.2	12161.0	11750.1	11695.3	11507.4	8505.3
62.5°	1366.0	1440.4	2062.7	3573.6	5417.1	7248.9	7753.8	7585.5	7225.4	6732.2	4403.3
65°	649.7	696.7	1025.5	1671.3	2403.2	3021.7	3526.6	3683.1	2716.4	2446.3	1452.1
67.5°	442.3	477.5	747.6	955.0	857.2	896.3	1166.4	1084.2	638.0	544.1	403.2
70°	336.6	360.1	598.9	649.7	383.6	270.1	301.4	281.8	262.2	266.2	262.2
72.5°	238.8	258.3	438.4	383.6	168.3	125.3	160.5	191.8	191.8	191.8	187.9
75°	144.8	164.4	254.4	148.7	66.5	66.5	101.8	129.2	137.0	140.9	133.1
77.5°	74.4	93.9	86.1	43.1	43.1	50.9	74.4	90.0	97.9	97.9	93.9
80°	15.7	15.7	15.7	23.5	43.1	54.8	74.4	82.2	93.9	93.9	86.1
82.5°	0.0	3.9	11.7	23.5	39.1	50.9	70.5	82.2	93.9	97.9	90.0
85°	0.0	3.9	7.8	15.7	27.4	31.3	27.4	23.5	23.5	23.5	23.5
87.5°	0.0	0.0	3.9	3.9	3.9	7.8	7.8	7.8	7.8	7.8	7.8
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°	5628.4	5628.4	5628.4	5628.4	5628.4	5628.4	5628.4	5628.4	5628.4	5628.4	5628.4
2.5°	5683.2	5695.0	5675.4	5671.5	5655.8	5702.8	5589.3	5561.9	5632.4	5565.8	5581.5
5°	5757.6	5785.0	5749.8	5691.1	5605.0	5471.9	5358.4	5209.6	5139.2	5088.3	5080.5
7.5°	5812.4	5832.0	5796.8	5608.9	5350.5	5013.9	4763.4	4579.5	4434.7	4391.6	4321.1
10°	6035.5	6039.4	5863.3	5448.4	4943.5	4501.2	4117.6	3835.8	3691.0	3601.0	3561.8
12.5°	6184.2	6176.4	5820.2	5131.4	4458.1	3871.0	3432.6	3092.1	2959.0	2916.0	2888.6
15°	6372.1	6329.1	5718.5	4806.5	3831.9	3197.8	2802.5	2567.6	2555.9	2528.5	2555.9
17.5°	6520.9	6399.5	5569.7	4215.5	3233.0	2634.2	2375.8	2391.5	2422.8	2450.2	2454.1
20°	6763.5	6513.0	5229.2	3698.8	2677.2	2258.4	2254.5	2325.0	2403.2	2434.6	2465.9
22.5°	6947.5	6560.0	4865.2	3146.9	2223.2	2105.8	2172.3	2278.0	2336.7	2368.0	2415.0
25°	7014.0	6430.8	4379.9	2595.0	2004.0	2035.3	2137.1	2207.5	2281.9	2317.1	2297.6
27.5°	7080.6	6364.3	3800.6	2137.1	1886.6	1988.4	2074.5	2144.9	2168.4	2215.4	2246.7
30°	7241.0	6133.4	3280.0	1847.4	1827.9	1957.0	2019.7	2043.1	2105.8	2133.2	2133.2
32.5°	7370.2	6043.3	2728.1	1710.5	1820.0	1972.7	1980.5	1980.5	1988.4	1968.8	1961.0
35°	7636.4	5734.1	2234.9	1628.3	1816.1	1976.6	1996.2	1929.6	1749.6	1679.1	1659.6
37.5°	7965.2	5534.5	1870.9	1608.7	1843.5	2023.6	2054.9	1804.4	1569.5	1456.0	1436.5
40°	8364.4	5393.6	1632.2	1600.9	1906.2	2133.2	2039.2	1706.5	1401.2	1236.8	1229.0
42.5°	8830.2	5264.4	1471.7	1596.9	1984.4	2246.7	2023.6	1624.3	1229.0	1119.4	1135.1
45°	9202.0	5194.0	1362.1	1569.5	2011.8	2313.2	2035.3	1479.5	1158.6	1088.1	1095.9
47.5°	9491.6	5045.2	1272.1	1522.6	2007.9	2336.7	1929.6	1420.8	1123.3	1142.9	1162.5
50°	9499.5	4845.6	1158.6	1420.8	1949.2	2293.7	1808.3	1366.0	1115.5	1197.7	1236.8
52.5°	9393.8	4563.8	1037.2	1276.0	1812.2	2144.9	1698.7	1342.5	1080.3	1072.5	1119.4
55°	9018.0	4035.4	833.7	1033.3	1530.4	1769.2	1600.9	1299.5	974.6	884.6	892.4
57.5°	7288.0	2892.5	614.5	739.8	1084.2	1295.6	1444.3	1279.9	876.8	751.5	755.4
60°	4512.9	1640.0	450.1	504.9	669.3	786.7	1170.3	1189.9	782.8	634.1	626.3
62.5°	2317.1	810.2	348.4	356.2	411.0	461.9	802.4	998.1	708.4	602.8	602.8
65°	775.0	399.2	305.3	274.0	274.0	285.7	485.3	692.8	598.9	504.9	504.9
67.5°	332.7	297.5	266.2	238.8	219.2	207.4	274.0	403.2	446.2	383.6	367.9
70°	258.3	250.5	230.9	199.6	172.2	156.6	160.5	207.4	254.4	246.6	238.8
72.5°	191.8	191.8	184.0	156.6	133.1	113.5	105.7	109.6	121.3	125.3	129.2
75°	133.1	137.0	137.0	121.3	97.9	82.2	70.5	58.7	47.0	39.1	35.2
77.5°	90.0	93.9	101.8	90.0	74.4	54.8	43.1	31.3	19.6	7.8	7.8
80°	78.3	90.0	97.9	90.0	78.3	58.7	43.1	23.5	11.7	0.0	0.0
82.5°	82.2	90.0	101.8	86.1	74.4	54.8	43.1	27.4	11.7	3.9	0.0
85°	19.6	19.6	23.5	27.4	35.2	39.1	31.3	19.6	11.7	3.9	0.0
87.5°	7.8	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	0.0	0.0
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)