

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: P532297

Luminaire Tested: **GALN-SA7C-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
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-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23808 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

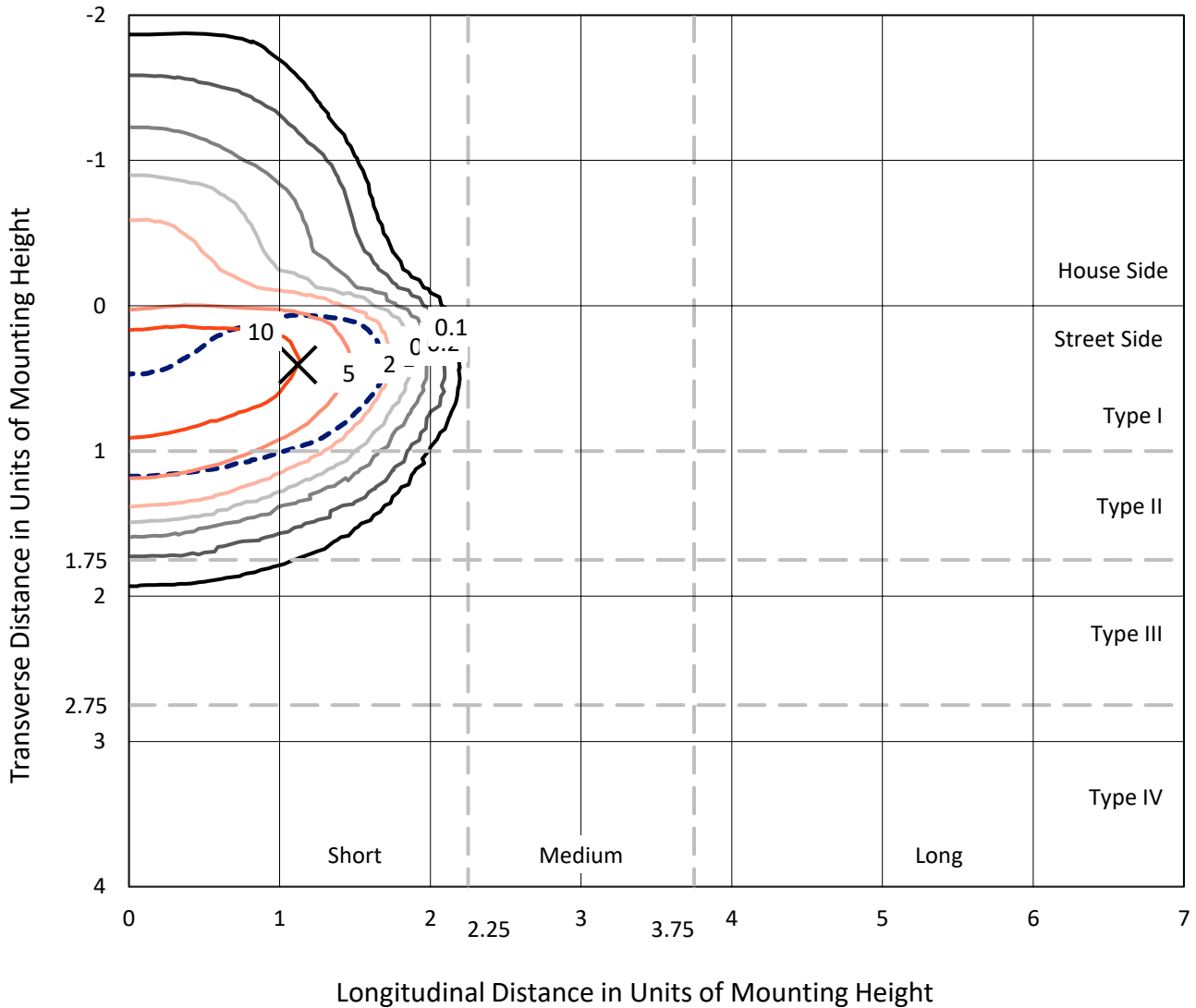
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

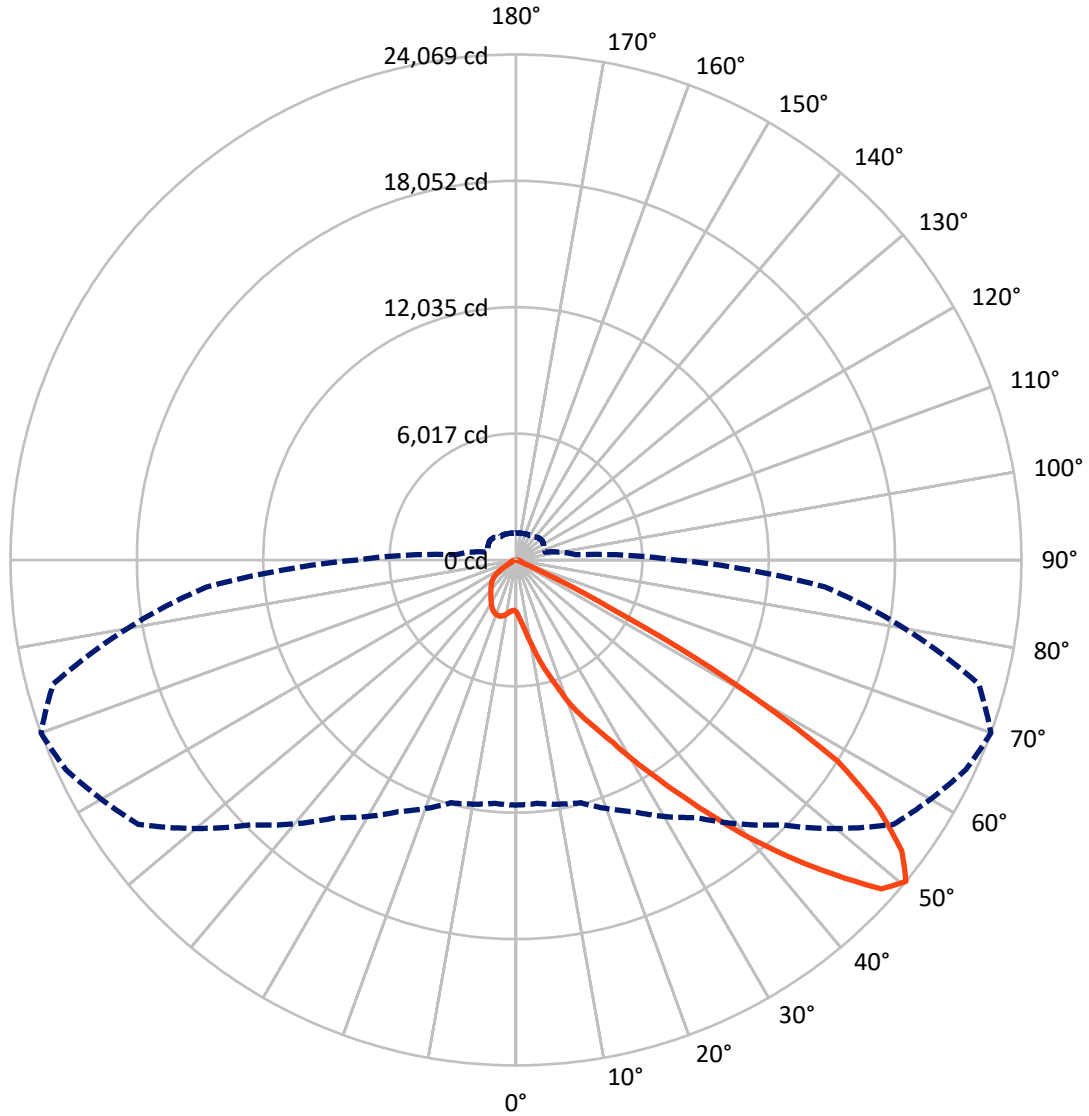
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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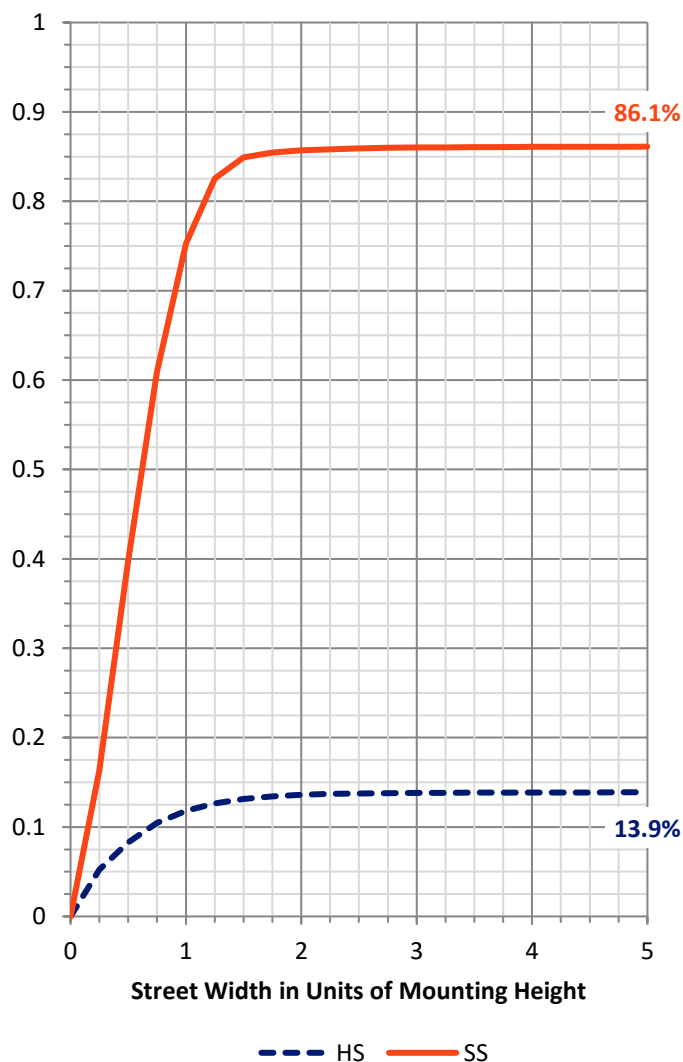
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3324.9	0.0	3324.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20483.0	0.0	20483.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	23808.0	0.0	23808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	1.3
10°-20°	1387.1	5.8
20°-30°	2910.0	12.2
30°-40°	5015.8	21.1
40°-50°	7330.5	30.8
50°-60°	5709.3	24.0
60°-70°	967.3	4.1
70°-80°	132.9	0.6
80°-90°	34.4	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°	23808.0	100.0
0°-180°	23808.0	100.0

Coefficient of Utilization



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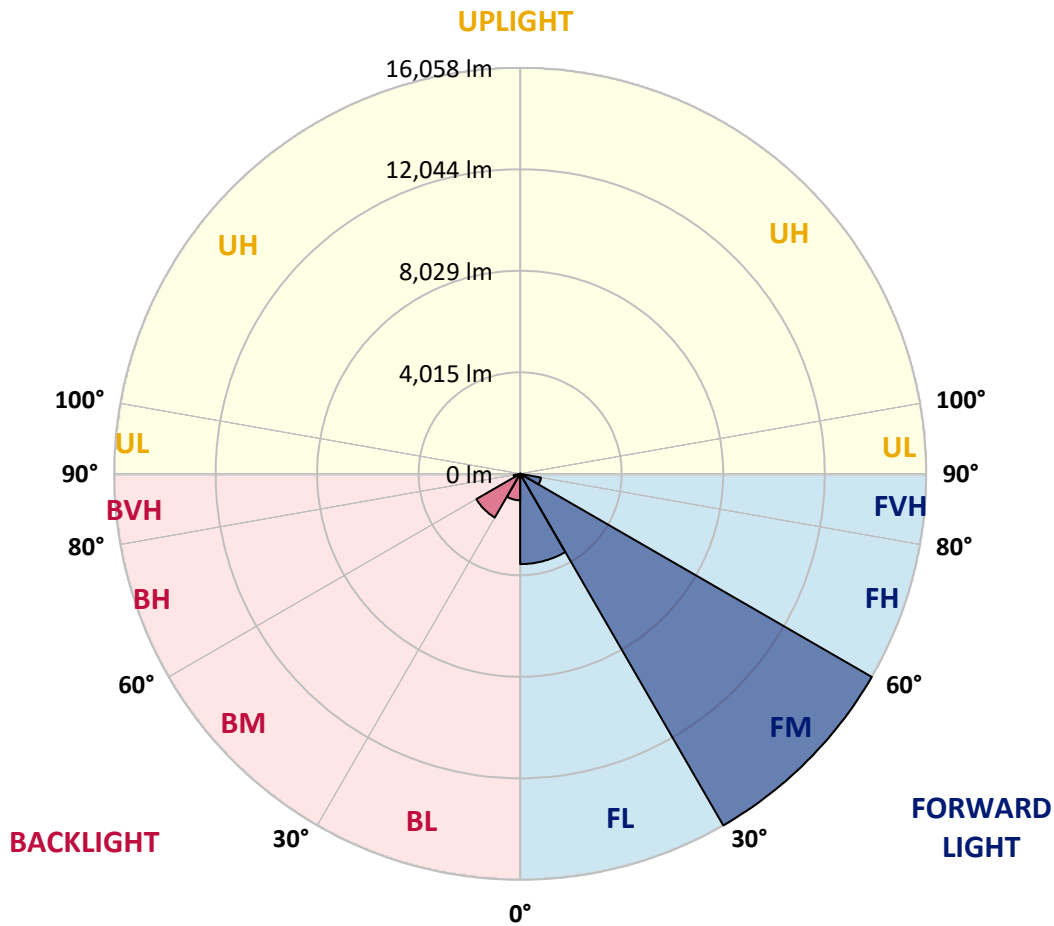
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3571.5	15.0			
FM (30°-60°)	16058.1	67.4			
FH (60°-80°)	837.6	3.5			G1/1800
FVH (80°-90°)	15.9	0.1			G1/100
BL (0°-30°)	1046.3	4.4	B3/2500		
BM (30°-60°)	1997.5	8.4	B2/2500		
BH (60°-80°)	262.6	1.1	B1/500		G1/500
BVH (80°-90°)	18.5	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0
2.5°	3229.3	3205.9	3155.0	3061.0	3021.9	2927.9	2873.1	2767.4	2700.9	2626.5	2544.3
5°	4548.5	4427.1	4352.8	4247.1	3937.8	3746.0	3429.0	3158.9	3033.6	2896.6	2708.7
7.5°	5910.7	5832.4	5730.6	5503.6	5292.2	4892.9	4348.8	3753.9	3499.4	3264.6	2892.7
10°	7038.0	6818.8	6807.1	6638.7	6407.8	5930.2	5276.5	4536.7	4082.7	3738.2	3155.0
12.5°	7824.8	7625.2	7715.2	7695.6	7480.3	7041.9	6286.4	5307.9	4834.2	4298.0	3425.1
15°	8541.1	8458.9	8431.5	8408.0	8321.9	7997.0	7319.8	6247.3	5562.3	4916.4	3730.4
17.5°	9241.8	9030.4	9132.2	9151.7	9143.9	8850.3	8216.2	7139.8	6333.4	5570.1	4051.4
20°	9864.2	9883.7	9746.7	9719.3	9695.8	9684.1	9065.6	8024.4	7280.7	6255.1	4470.2
22.5°	10662.7	10525.7	10647.0	10568.7	10416.1	10322.1	9848.5	8807.3	8102.7	7081.1	4896.9
25°	11606.0	11715.6	11429.9	11398.6	11230.3	10905.4	10478.7	9684.1	8893.4	7848.3	5358.7
27.5°	12768.6	12576.8	12502.4	12330.2	12024.9	11887.9	11386.8	10588.3	9848.5	8654.6	5805.0
30°	13766.8	13715.9	13344.0	13140.5	12874.3	12870.4	12169.7	11813.5	11093.3	9919.0	6419.5
32.5°	14581.0	14357.8	14220.8	14079.9	13864.6	13923.3	13332.3	13144.4	12420.2	11093.3	7143.7
35°	15125.0	14964.6	14882.4	14667.1	14604.4	14866.7	14620.1	14541.8	13946.8	12745.1	7993.1
37.5°	15297.3	15348.2	15332.5	15062.4	15195.5	15904.0	16221.1	16017.5	15704.4	14487.0	8913.0
40°	15449.9	15485.2	15406.9	15723.9	16103.6	16910.0	18056.9	17720.3	17602.8	16252.4	10193.0
42.5°	15536.1	15508.7	15508.7	16056.7	16632.1	18252.6	19830.1	19607.0	19516.9	18131.3	11672.6
45°	15164.2	14898.0	15183.8	15927.5	17086.1	18914.1	21247.1	21556.3	21427.1	20366.4	13402.7
47.5°	13774.6	13939.0	14099.5	15093.7	16534.2	18710.6	22116.1	23169.0	23407.8	22245.2	14537.9
50°	11672.6	11637.4	11970.1	13222.7	14972.4	17833.8	21947.8	23634.8	24069.3	22808.9	14776.7
52.5°	8490.2	8748.6	9108.7	10353.5	12428.1	15563.5	19775.3	22433.1	23012.5	22116.1	14620.1
55°	4943.8	4658.1	5468.3	6521.3	8478.5	11739.1	16718.2	19884.9	20957.4	20855.7	13829.4
57.5°	1980.7	1918.0	2195.9	2959.2	4423.2	7276.8	12158.0	16338.5	18056.9	19102.0	12154.1
60°	869.0	849.4	998.2	1205.6	1808.4	3354.6	6650.5	10161.7	11954.4	13347.9	8365.0
62.5°	626.3	618.5	692.8	767.2	955.1	1460.1	2794.8	4094.4	5104.3	6165.1	3746.0
65°	505.0	524.5	575.4	614.6	704.6	810.3	986.4	1139.1	1397.4	1448.3	825.9
67.5°	411.0	426.7	473.6	516.7	532.4	438.4	454.1	399.3	399.3	356.2	285.7
70°	301.4	305.3	360.1	411.0	328.8	176.1	309.2	309.2	277.9	266.2	242.7
72.5°	223.1	227.0	270.1	254.4	129.2	109.6	227.0	250.5	227.0	215.3	195.7
75°	164.4	168.3	140.9	58.7	54.8	70.5	133.1	172.2	164.4	160.5	148.7
77.5°	31.3	23.5	19.6	27.4	39.1	58.7	86.1	105.7	109.6	117.4	109.6
80°	3.9	3.9	11.7	23.5	43.1	62.6	90.0	101.8	105.7	109.6	101.8
82.5°	0.0	3.9	11.7	23.5	43.1	58.7	78.3	90.0	97.9	101.8	97.9
85°	0.0	3.9	7.8	19.6	35.2	43.1	39.1	27.4	23.5	27.4	19.6
87.5°	0.0	0.0	3.9	3.9	7.8	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°	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0	2466.0
2.5°	2497.4	2481.7	2426.9	2368.2	2317.3	2340.8	2317.3	2297.7	2305.6	2297.7	2289.9
5°	2634.4	2563.9	2446.5	2395.6	2352.5	2348.6	2336.9	2333.0	2336.9	2336.9	2301.6
7.5°	2763.5	2650.0	2524.8	2470.0	2419.1	2423.0	2395.6	2395.6	2391.7	2372.1	2364.3
10°	2959.2	2806.6	2646.1	2548.2	2485.6	2473.9	2446.5	2419.1	2419.1	2419.1	2379.9
12.5°	3174.5	2982.7	2763.5	2650.0	2575.6	2516.9	2473.9	2466.0	2423.0	2415.2	2395.6
15°	3362.4	3119.7	2841.8	2685.2	2591.3	2513.0	2446.5	2403.4	2383.8	2372.1	2356.4
17.5°	3546.4	3237.2	2884.9	2685.2	2583.5	2493.4	2423.0	2383.8	2336.9	2344.7	2313.4
20°	3793.0	3362.4	2896.6	2634.4	2509.1	2423.0	2329.0	2309.5	2282.1	2258.6	2266.4
22.5°	4031.8	3452.5	2861.4	2571.7	2391.7	2289.9	2242.9	2219.4	2207.7	2188.1	2160.7
25°	4247.1	3550.3	2806.6	2458.2	2266.4	2192.0	2149.0	2145.1	2117.7	2117.7	2066.8
27.5°	4466.3	3585.5	2712.6	2325.1	2156.8	2113.7	2094.2	2086.3	2074.6	2047.2	2012.0
30°	4716.8	3597.3	2575.6	2188.1	2058.9	2012.0	2039.4	2058.9	2008.1	1957.2	1972.8
32.5°	4924.3	3569.9	2411.2	2058.9	1988.5	1965.0	2019.8	2039.4	1980.7	1925.9	1898.5
35°	5174.8	3503.3	2250.8	1957.2	1918.0	1965.0	2012.0	2012.0	1894.5	1828.0	1812.3
37.5°	5554.5	3429.0	2102.0	1871.1	1843.7	1941.5	2004.1	1961.1	1777.1	1694.9	1675.3
40°	5961.6	3382.0	1957.2	1784.9	1804.5	1902.4	1937.6	1804.5	1616.6	1565.7	1550.1
42.5°	6552.6	3288.1	1828.0	1710.6	1769.3	1847.6	1847.6	1608.8	1538.3	1510.9	1507.0
45°	7288.5	3221.5	1714.5	1647.9	1718.4	1738.0	1675.3	1507.0	1456.1	1448.3	1452.2
47.5°	7648.6	3092.3	1597.1	1573.6	1624.5	1628.4	1464.0	1424.8	1381.8	1370.0	1362.2
50°	7593.8	2861.4	1444.4	1475.7	1546.2	1507.0	1334.8	1342.6	1303.5	1299.6	1280.0
52.5°	7210.2	2497.4	1291.7	1366.1	1444.4	1330.9	1229.1	1221.3	1221.3	1170.4	1150.8
55°	6392.1	2012.0	1107.8	1201.7	1295.6	1119.5	1092.1	1084.3	1064.7	1017.7	1006.0
57.5°	5061.3	1475.7	833.8	935.5	1099.9	951.2	947.3	912.0	861.2	825.9	825.9
60°	3010.1	849.4	524.5	571.5	728.1	771.1	857.2	841.6	755.5	700.7	685.0
62.5°	1373.9	438.4	332.7	340.5	391.4	501.0	673.3	779.0	657.6	563.7	555.8
65°	461.9	324.9	274.0	262.3	270.1	301.4	403.2	551.9	524.5	434.5	418.8
67.5°	281.8	289.7	258.3	238.8	238.8	234.9	230.9	250.5	309.2	301.4	305.3
70°	242.7	266.2	238.8	215.3	207.5	195.7	164.4	137.0	117.4	137.0	144.8
72.5°	195.7	211.4	203.5	184.0	164.4	148.7	117.4	90.0	66.5	58.7	58.7
75°	144.8	156.6	164.4	140.9	125.3	105.7	86.1	58.7	35.2	23.5	23.5
77.5°	105.7	117.4	121.3	109.6	93.9	74.4	54.8	39.1	19.6	7.8	7.8
80°	90.0	105.7	117.4	109.6	97.9	70.5	50.9	27.4	15.7	3.9	3.9
82.5°	86.1	105.7	117.4	105.7	93.9	66.5	50.9	31.3	11.7	3.9	3.9
85°	19.6	27.4	35.2	43.1	50.9	50.9	39.1	23.5	11.7	3.9	3.9
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	3.9	3.9	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)