

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: P457915

Luminaire Tested: **GALN-SA9B-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50493 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

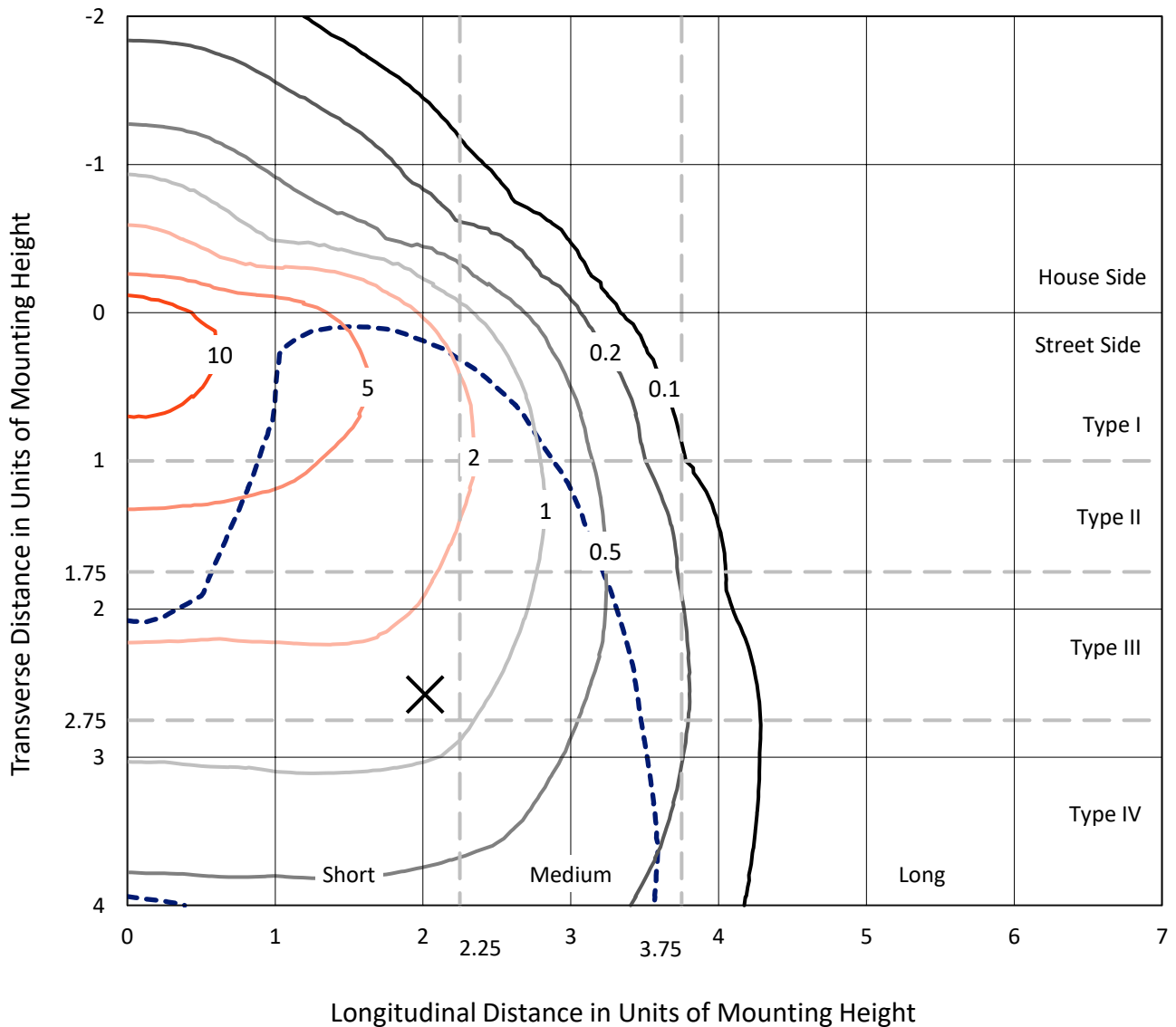
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

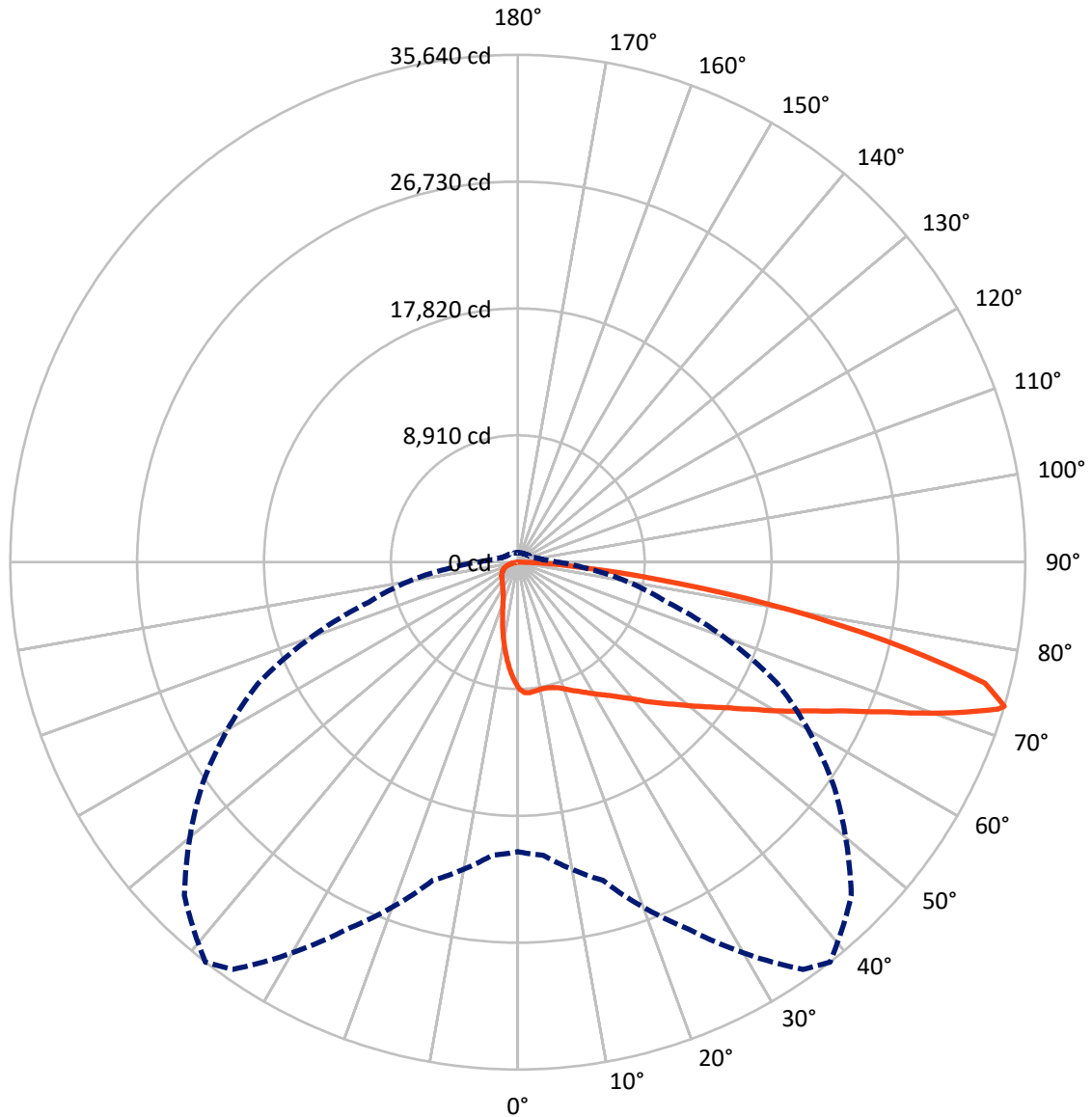
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6787.8	0.0	6787.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	43705.2	0.0	43705.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	50493.0	0.0	50493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.3	1.5
10°-20°	1985.6	3.9
20°-30°	3092.0	6.1
30°-40°	4535.2	9.0
40°-50°	6727.5	13.3
50°-60°	9531.5	18.9
60°-70°	12091.0	23.9
70°-80°	10064.8	19.9
80°-90°	1691.1	3.3
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°	50493.0	100.0
0°-180°	50493.0	100.0

Coefficient of Utilization



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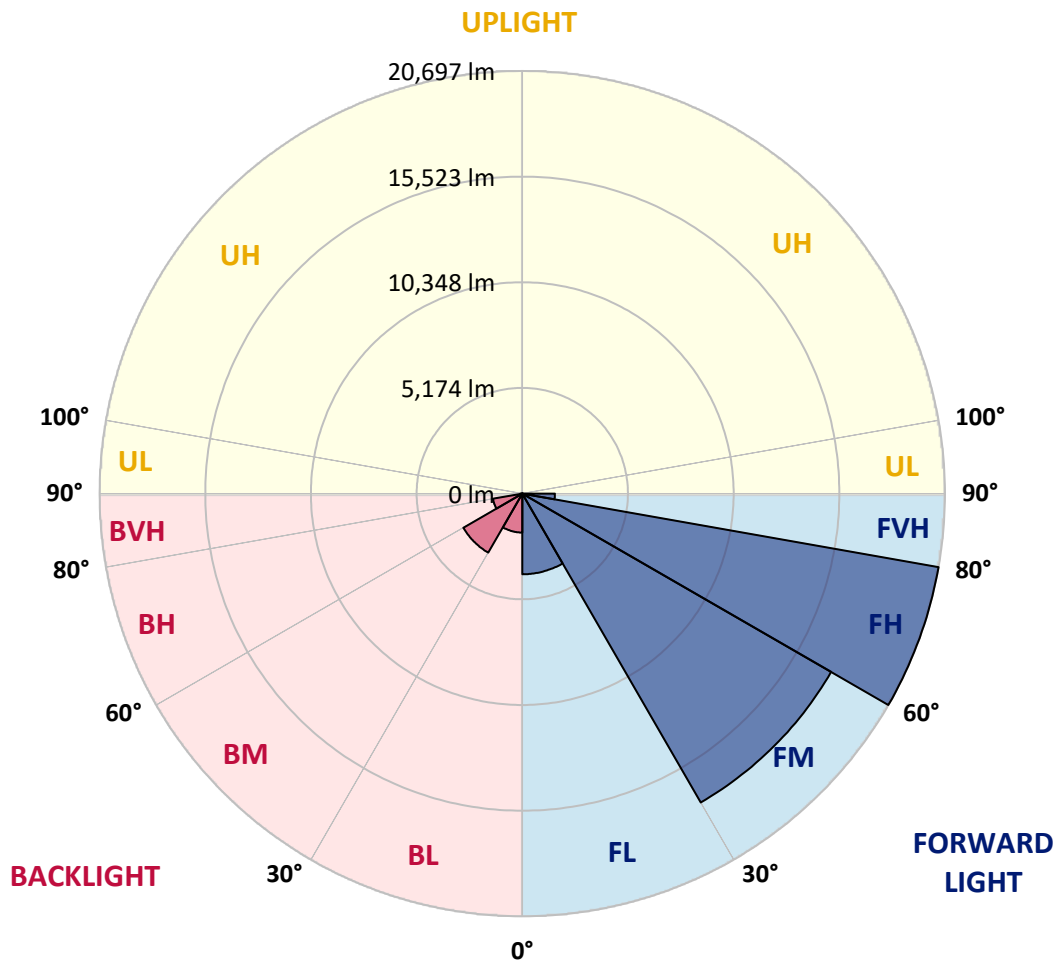
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3947.2	7.8			
FM (30°-60°)	17461.8	34.6			
FH (60°-80°)	20696.9	41.0			G5
FVH (80°-90°)	1599.3	3.2			G5
BL (0°-30°)	1904.7	3.8	B3/2500		
BM (30°-60°)	3332.4	6.6	B3/5000		
BH (60°-80°)	1459.0	2.9	B3/2500		G3/2500
BVH (80°-90°)	91.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	8870.8	8870.8	8870.8	8870.8	8870.8	8870.8	8870.8	8870.8	8870.8	8870.8	8870.8
2.5°	9227.2	9272.8	9250.0	9218.6	9198.7	9178.7	9150.2	9067.5	9001.9	8930.6	8819.4
5°	9295.6	9324.1	9304.2	9264.3	9218.6	9198.7	9144.5	9036.1	8930.6	8810.9	8645.5
7.5°	9255.7	9267.1	9244.3	9195.8	9155.9	9118.8	9056.1	8936.3	8808.0	8662.6	8445.9
10°	9113.1	9155.9	9155.9	9116.0	9076.1	9056.1	8993.4	8879.3	8762.4	8597.0	8340.4
12.5°	8996.2	9041.8	9078.9	9067.5	9064.7	9064.7	9016.2	8930.6	8793.8	8636.9	8331.8
15°	8916.4	8970.6	9050.4	9096.0	9124.5	9133.1	9113.1	9039.0	8899.3	8716.8	8366.1
17.5°	8899.3	8964.9	9110.3	9210.1	9284.2	9281.4	9275.7	9173.0	9019.0	8830.8	8408.8
20°	8976.3	9061.8	9264.3	9421.1	9529.4	9509.5	9478.1	9344.1	9164.5	8953.5	8448.8
22.5°	9207.2	9295.6	9518.0	9689.1	9794.6	9794.6	9700.5	9523.7	9332.7	9096.0	8502.9
25°	9538.0	9634.9	9871.6	10045.5	10094.0	10057.0	9962.9	9749.0	9529.4	9301.3	8617.0
27.5°	9942.9	10059.8	10279.4	10424.8	10410.5	10382.0	10285.1	10011.3	9791.8	9583.6	8810.9
30°	10447.6	10533.1	10761.3	10795.5	10744.1	10738.4	10601.6	10327.8	10122.5	9962.9	9087.5
32.5°	10923.8	11000.8	11183.3	11197.5	11106.3	11117.7	10989.4	10738.4	10621.5	10564.5	9552.3
35°	11428.5	11468.4	11625.2	11608.1	11548.2	11539.7	11488.4	11248.8	11285.9	11388.6	10210.9
37.5°	11850.5	11930.3	12018.7	12033.0	12030.1	12058.7	12092.9	11978.8	12192.7	12514.9	11074.9
40°	12238.3	12306.7	12437.9	12483.5	12594.7	12651.7	12768.7	12771.5	13264.8	13795.2	12138.5
42.5°	12500.6	12617.5	12862.8	12945.4	13216.3	13387.4	13561.3	13746.7	14462.4	15143.9	13393.1
45°	12728.7	12882.7	13290.5	13547.1	13914.9	14123.1	14490.9	14878.7	15908.1	16800.6	14667.7
47.5°	13073.8	13210.6	13678.3	14131.6	14687.7	14927.2	15477.5	16056.3	17402.2	18380.2	15888.1
50°	13552.8	13635.5	14111.7	14850.2	15560.2	15868.1	16595.3	17430.7	18999.0	19940.0	16960.2
52.5°	14165.8	14200.1	14579.3	15563.0	16498.3	16880.4	17844.2	18819.4	20396.2	21294.4	17810.0
55°	14890.1	14833.1	15129.6	16318.7	17570.4	18069.4	19104.5	20225.1	21967.3	22389.3	18428.7
57.5°	15605.8	15517.4	15754.1	17236.8	18893.5	19495.2	20701.3	21673.6	23370.2	23413.0	18862.1
60°	16364.3	16298.7	16581.0	18314.7	20516.0	21228.8	22343.7	23176.3	24727.5	24125.9	18930.6
62.5°	17142.7	17037.2	17439.3	19526.5	22343.7	22991.0	24071.7	24773.1	26059.1	24391.0	18271.9
65°	17898.4	17849.9	18471.5	20966.5	24425.3	25160.9	26210.2	26686.4	27125.5	23991.8	16638.0
67.5°	18702.5	18799.4	19791.7	22888.3	27139.8	28063.7	29195.7	28748.0	27430.7	22101.3	14011.9
70°	19928.6	19991.3	21525.4	25406.1	30638.5	31753.4	32300.9	29480.8	25959.3	18511.4	10533.1
72.5°	20456.1	20732.7	23073.7	28049.4	34613.4	35294.9	33344.5	27847.0	21625.2	12574.8	5534.6
73°	20339.2	20669.9	23145.0	28451.5	34924.2	35639.9	33122.1	27005.8	20102.5	10829.7	4744.8
75°	18882.1	19289.8	22218.3	28115.0	34319.7	33892.0	29546.4	23016.7	13584.2	4924.4	2161.4
77.5°	14898.7	15015.6	17604.7	22703.0	27025.7	26233.1	22112.8	14385.4	5548.9	1830.6	1226.1
80°	7473.6	7904.1	9922.9	13005.3	18072.3	17812.8	13957.7	6803.5	2312.5	1075.0	812.7
82.5°	3595.6	3900.7	4833.2	6341.6	9985.7	9749.0	6911.8	3718.3	1468.5	627.3	479.0
85°	2315.4	2543.5	3076.7	3025.4	4106.0	3920.7	3105.2	2814.4	869.7	327.9	333.6
87.5°	1528.4	1673.8	2007.4	1605.3	1494.1	1351.6	1371.5	1585.4	171.1	125.5	45.6
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°	8870.8	8870.8	8870.8	8870.8	8870.8	8870.8	8870.8	8870.8	8870.8	8870.8	8870.8
2.5°	8773.8	8736.7	8614.1	8494.4	8380.3	8272.0	8200.7	8106.6	8043.9	8061.0	8086.6
5°	8554.3	8471.6	8254.9	8043.9	7844.3	7607.6	7416.5	7262.6	7145.7	7102.9	7094.3
7.5°	8323.3	8183.6	7872.8	7510.6	7171.3	6877.6	6538.3	6370.1	6173.3	6104.9	6082.1
10°	8183.6	7995.4	7559.1	7054.4	6544.0	6056.4	5688.6	5389.2	5118.3	5067.0	5041.3
12.5°	8143.7	7895.6	7308.2	6658.1	5979.4	5380.6	4836.0	4442.5	4180.2	4120.3	4031.9
15°	8120.8	7812.9	7074.4	6258.9	5397.7	4667.8	4094.6	3635.6	3396.0	3236.4	3239.2
17.5°	8100.9	7718.8	6812.0	5822.6	4895.9	4054.7	3421.7	3008.2	2788.7	2703.1	2694.6
20°	8072.4	7607.6	6509.8	5363.5	4322.8	3495.8	2922.7	2614.8	2466.5	2395.2	2392.3
22.5°	8061.0	7499.2	6213.2	4895.9	3815.2	3065.3	2591.9	2375.2	2281.1	2232.7	2232.7
25°	8089.5	7422.2	5902.4	4451.1	3364.7	2697.4	2363.8	2215.6	2161.4	2135.7	2127.2
27.5°	8177.9	7388.0	5594.5	4006.2	2951.2	2446.5	2209.8	2107.2	2067.3	2047.3	2050.2
30°	8346.1	7385.2	5292.2	3567.1	2643.3	2255.5	2087.2	2016.0	1984.6	1973.2	1970.3
32.5°	8617.0	7447.9	4995.7	3205.0	2383.8	2095.8	1973.2	1921.9	1907.6	1899.0	1896.2
35°	9076.1	7624.7	4702.0	2874.2	2184.2	1953.2	1864.8	1839.2	1819.2	1827.8	1830.6
37.5°	9694.8	7929.8	4422.6	2614.8	2033.1	1847.7	1773.6	1750.8	1739.4	1747.9	1756.5
40°	10524.6	8368.9	4188.7	2406.6	1924.7	1759.3	1693.7	1673.8	1662.4	1676.6	1679.5
42.5°	11439.9	8876.5	3994.8	2244.1	1836.3	1685.2	1622.5	1599.6	1591.1	1599.6	1602.5
45°	12380.9	9466.7	3895.0	2127.2	1762.2	1631.0	1565.4	1539.8	1519.8	1514.1	1522.7
47.5°	13307.6	9980.0	3892.2	2055.9	1702.3	1582.5	1511.3	1482.7	1457.1	1442.8	1440.0
50°	14063.2	10387.7	3960.6	2024.5	1651.0	1528.4	1457.1	1428.6	1394.3	1365.8	1371.5
52.5°	14633.5	10652.9	3992.0	2010.3	1622.5	1471.3	1400.0	1374.4	1334.5	1297.4	1297.4
55°	15001.3	10715.6	3915.0	1996.0	1599.6	1411.5	1334.5	1311.7	1271.7	1234.7	1234.7
57.5°	15126.8	10521.7	3638.4	1961.8	1576.8	1360.1	1268.9	1248.9	1217.6	1180.5	1174.8
60°	14835.9	9865.9	3153.7	1859.1	1531.2	1305.9	1197.6	1189.0	1177.6	1146.3	1143.4
62.5°	13715.3	8474.4	2626.2	1725.1	1454.2	1248.9	1132.0	1146.3	1154.8	1137.7	1134.9
65°	11850.5	6880.5	2244.1	1539.8	1351.6	1169.1	1060.7	1097.8	1120.6	1120.6	1114.9
67.5°	9612.1	5283.7	1890.5	1380.1	1223.3	1060.7	980.9	1009.4	1026.5	1020.8	1035.1
70°	6832.0	3578.5	1539.8	1197.6	1060.7	938.1	878.2	878.2	866.8	861.1	861.1
72.5°	3313.3	2044.5	1248.9	1000.8	903.9	801.2	752.8	732.8	710.0	707.2	692.9
73°	2768.7	1833.5	1191.9	963.8	866.8	781.3	727.1	695.7	681.5	670.1	667.2
75°	1685.2	1391.5	995.1	812.7	738.5	672.9	624.5	595.9	581.7	573.1	570.3
77.5°	1109.2	1037.9	772.7	621.6	564.6	524.7	504.7	476.2	467.6	456.2	456.2
80°	826.9	792.7	553.2	439.1	404.9	370.7	365.0	359.3	336.5	322.2	316.5
82.5°	533.2	564.6	376.4	293.7	256.6	228.1	231.0	239.5	216.7	196.7	191.0
85°	379.2	407.8	228.1	134.0	108.4	94.1	105.5	94.1	96.9	77.0	62.7
87.5°	62.7	108.4	39.9	17.1	8.6	5.7	0.0	0.0	0.0	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)