

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: P647042

Luminaire Tested: **GALN-SA7C-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28603 lumens
Efficiency: N/A
Efficacy: 75.9 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

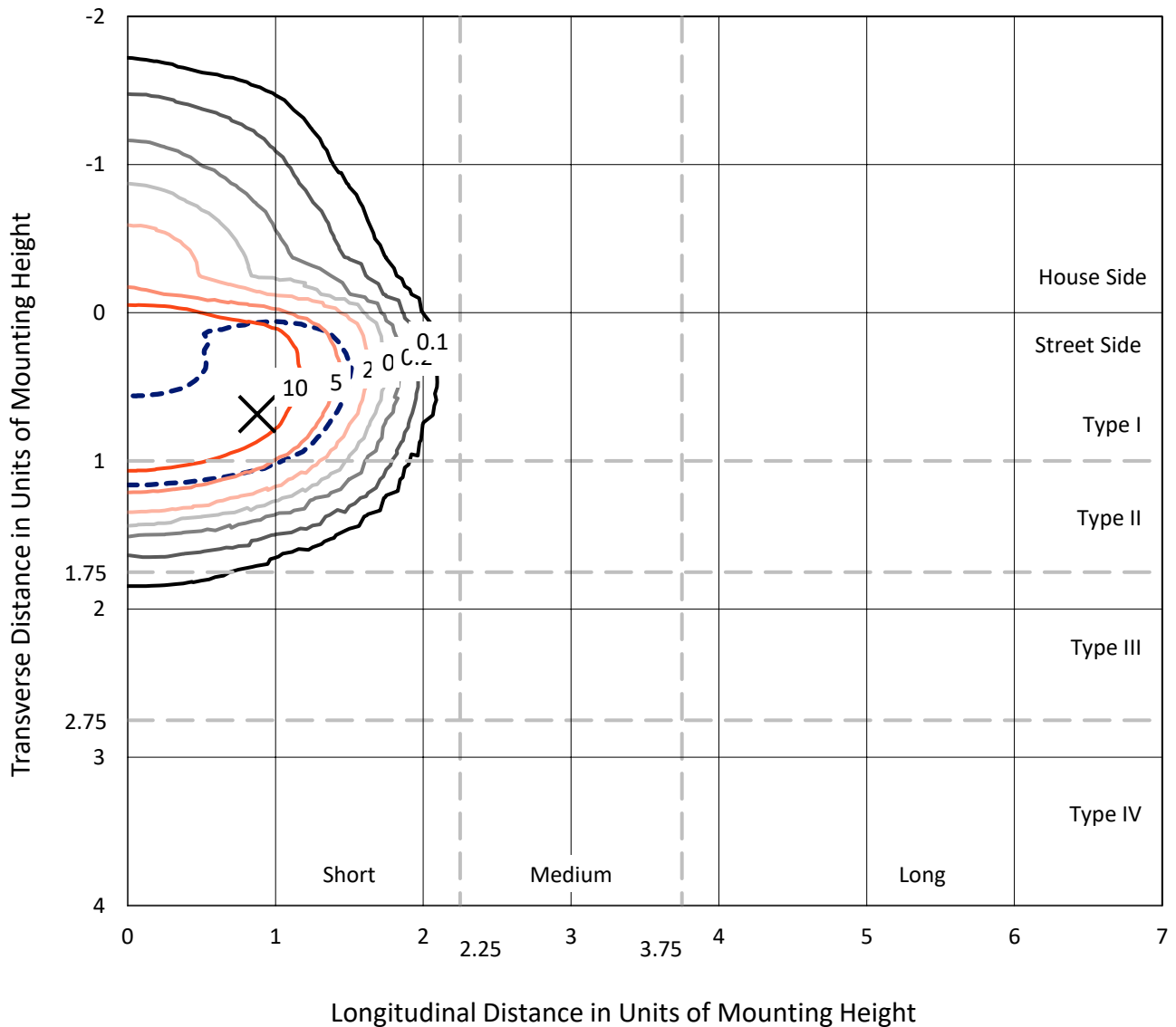
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

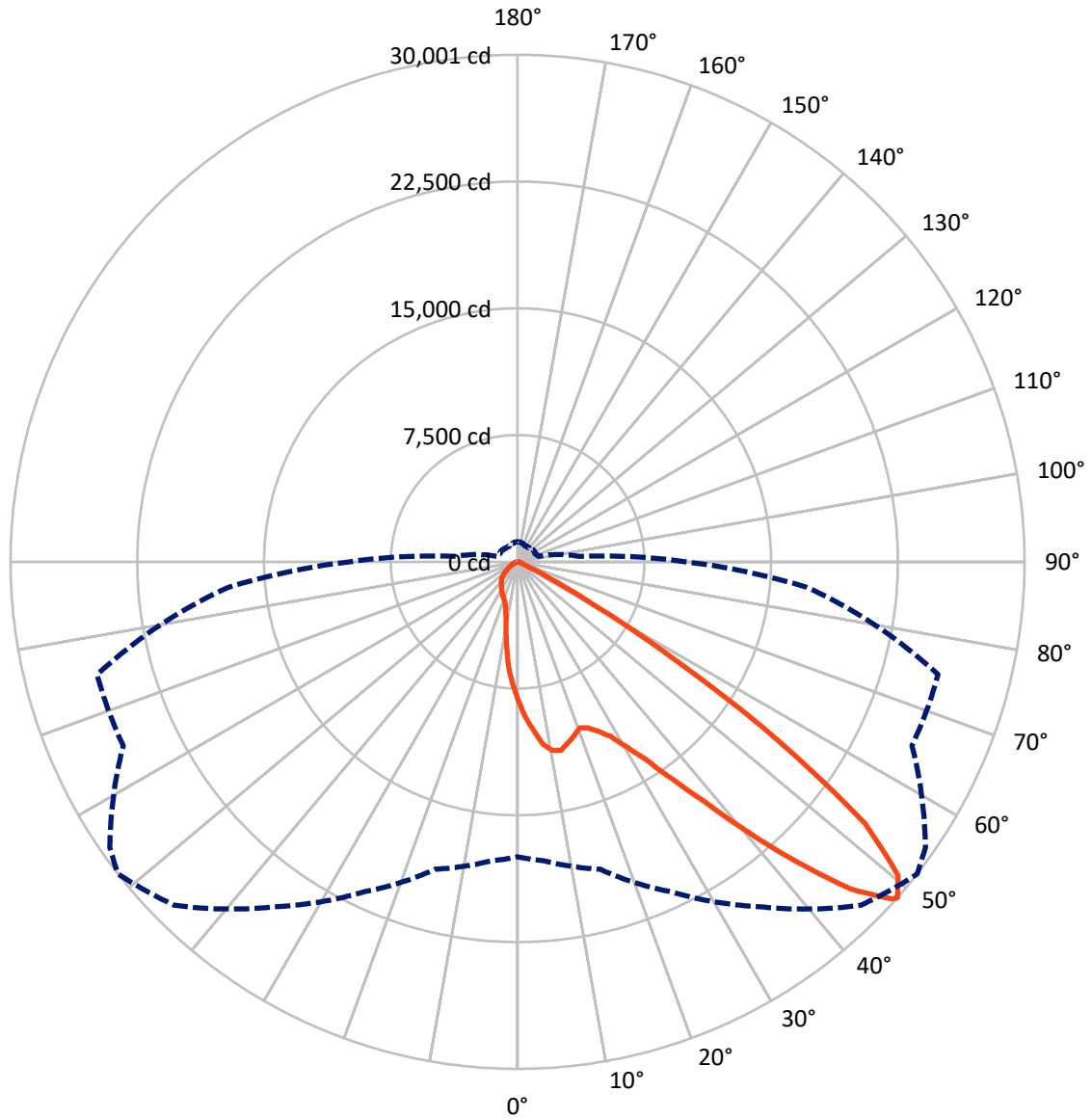
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3482.6	0.0	3482.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	25120.4	0.0	25120.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	28603.0	0.0	28603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.0	2.6
10°-20°	1975.8	6.9
20°-30°	3373.5	11.8
30°-40°	6212.2	21.7
40°-50°	9647.6	33.7
50°-60°	5806.2	20.3
60°-70°	671.5	2.3
70°-80°	130.0	0.5
80°-90°	30.1	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°	28603.0	100.0
0°-180°	28603.0	100.0

Coefficient of Utilization



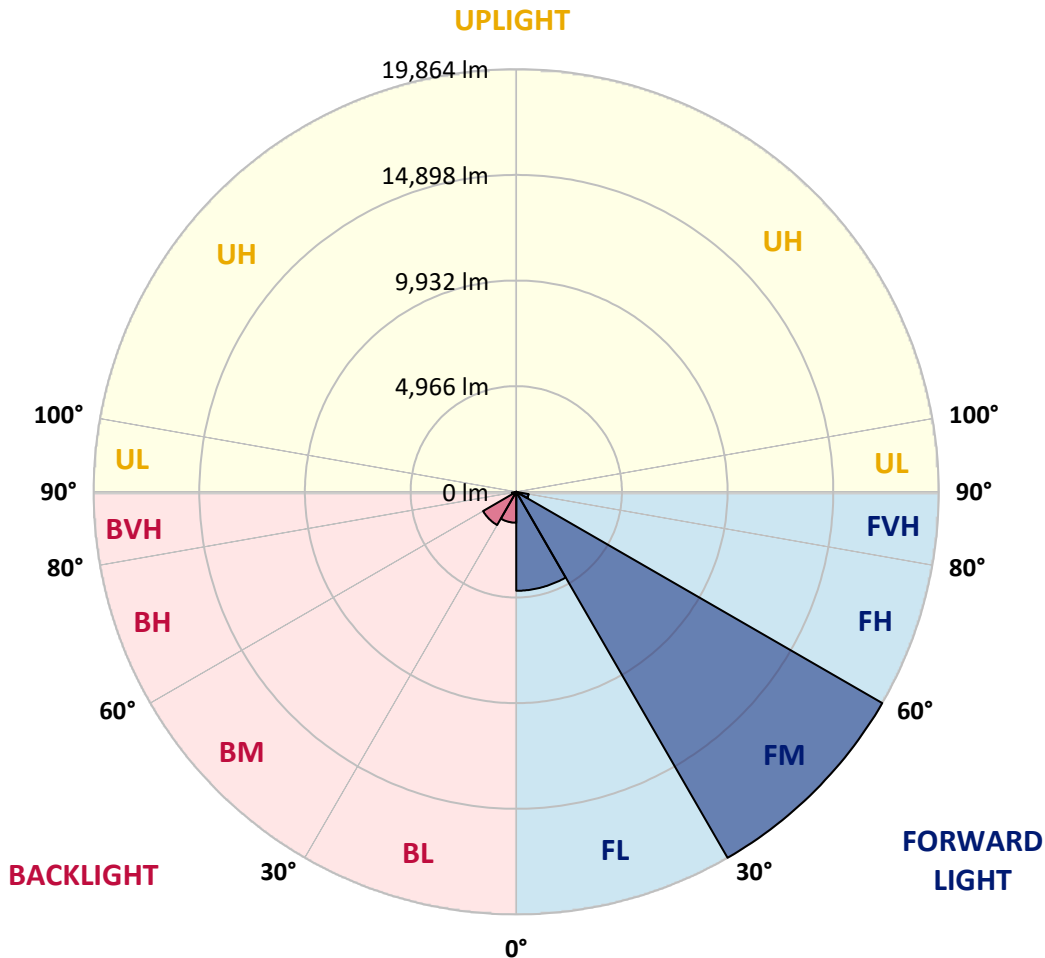
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4650.5	16.3			
FM	(30°-60°)	19864.2	69.4			
FH	(60°-80°)	591.3	2.1			G0/660
FVH	(80°-90°)	14.3	0.1			G1/100
BL	(0°-30°)	1454.8	5.1	B3/2500		
BM	(30°-60°)	1801.9	6.3	B2/2500		
BH	(60°-80°)	210.2	0.7	B1/500		G1/500
BVH	(80°-90°)	15.8	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°	52°	55°	65°	75°	85°
0°	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1
2.5°	10011.3	9782.0	9802.8	9652.7	9565.2	9423.4	9231.6	9194.1	8985.6	8702.0	8414.4
5°	10912.0	10857.8	10928.6	10711.8	10720.1	10486.6	10036.3	10044.7	9565.2	9102.4	8656.2
7.5°	10970.3	10845.3	10916.1	11108.0	11220.5	11178.8	10924.5	10703.5	10249.0	9569.4	8918.8
10°	9823.7	10061.4	10136.4	10453.3	10903.6	11378.9	11349.7	11362.3	10982.8	10094.7	9144.0
12.5°	9135.7	8977.3	9231.6	9423.4	10103.0	11024.6	11445.7	11537.4	11566.6	10603.4	9369.2
15°	8823.0	8823.0	8864.7	8918.8	9410.9	10261.5	11120.5	11387.3	12016.9	11270.6	9723.6
17.5°	9018.9	9010.6	9068.9	8956.4	9139.9	9794.5	10820.2	11124.6	12521.4	11925.2	10003.0
20°	9615.2	9644.4	9606.9	9281.6	9294.1	9786.2	10486.6	10966.1	12863.4	12492.3	10374.0
22.5°	10445.0	10461.7	10249.0	9894.5	9790.3	10032.2	10678.5	11045.4	13138.6	13171.9	10486.6
25°	11404.0	11337.3	11295.6	10795.2	10478.3	10686.8	11112.1	11324.8	13309.5	13755.7	10807.7
27.5°	12734.1	12600.7	12346.3	11900.2	11666.7	11370.6	11675.0	12025.2	13797.3	14572.9	11158.0
30°	14698.0	14581.3	14085.1	13509.6	12896.7	12604.8	12700.7	12892.6	14677.2	15519.5	11620.8
32.5°	17654.3	17408.3	16691.1	15594.5	14760.6	13955.8	13930.8	14135.1	15465.2	16828.7	12171.2
35°	20910.8	20835.7	19780.8	18650.8	17037.1	15794.6	15815.5	15923.9	16974.7	18546.6	12892.6
37.5°	23074.9	23487.7	22816.3	21603.0	20247.8	18471.5	18021.2	18058.7	19046.9	20581.4	14193.4
40°	24746.9	24396.6	24475.8	24192.3	23266.6	22057.4	21060.9	20864.9	21444.5	22833.0	15486.1
42.5°	24017.2	24033.9	24521.7	25193.0	25422.4	25334.7	24317.4	23946.3	23496.0	24675.9	16716.1
45°	21957.4	22386.8	23020.6	24796.9	26356.3	27819.9	27619.7	27002.6	24913.7	26135.4	17425.0
47.5°	18671.7	18655.0	19693.2	22003.2	25468.2	28895.7	29804.7	29371.0	25918.6	25972.7	17279.0
48°	17458.3	17758.5	18830.1	21548.7	24905.3	28737.2	30000.6	29454.3	25747.5	25755.9	17153.9
50°	12905.1	12850.8	14185.1	17520.9	22245.0	27002.6	29175.0	29600.3	25743.4	24659.3	16278.3
52.5°	6817.3	7050.8	8022.4	11016.2	15727.9	22099.2	25735.0	26398.1	24834.4	22866.3	15019.0
55°	2897.9	2618.5	3364.9	4974.4	8848.0	14764.7	18880.2	20356.2	20998.3	20235.3	13138.6
57.5°	1034.1	1129.9	1301.0	1872.2	3719.3	8080.8	11258.1	12404.7	14547.9	14848.1	8952.2
60°	663.0	675.5	729.7	859.0	1396.8	3114.7	5341.3	6254.4	7226.0	7459.5	4178.0
62.5°	512.9	517.0	542.1	562.9	663.0	1209.2	2005.6	2376.7	2468.4	2122.3	1096.6
65°	429.5	433.6	442.0	442.0	471.1	567.0	700.5	771.4	750.5	742.2	621.3
67.5°	329.4	337.7	354.4	354.4	371.1	346.1	387.7	412.8	467.0	567.0	529.5
70°	258.5	262.7	275.2	283.5	283.5	250.2	279.4	304.4	341.9	421.1	416.9
72.5°	200.1	208.5	216.8	216.8	204.3	170.9	200.1	221.0	246.0	291.9	283.5
75°	154.3	154.3	158.5	129.3	100.1	87.5	120.9	146.0	183.5	191.8	158.5
77.5°	41.7	45.9	41.7	37.5	41.7	62.6	79.2	91.8	116.7	116.7	104.2
80°	0.0	4.1	12.5	25.1	41.7	58.4	70.9	79.2	91.8	100.1	95.9
82.5°	0.0	4.1	12.5	25.1	37.5	45.9	62.6	66.7	75.1	87.5	87.5
85°	0.0	4.1	8.4	16.7	25.1	29.2	29.2	25.1	25.1	20.8	16.7
87.5°	0.0	0.0	4.1	8.4	8.4	12.5	12.5	12.5	12.5	12.5	12.5
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°	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1	8260.1
2.5°	8301.8	8172.5	7976.5	7668.0	7371.9	7180.1	6996.7	6792.4	6679.8	6671.4	6608.9
5°	8401.8	8109.9	7642.9	7113.4	6546.3	6058.5	5566.5	5245.4	4957.7	4799.2	4770.0
7.5°	8456.0	8076.6	7321.9	6433.8	5466.4	4670.0	4119.6	3715.2	3556.7	3440.0	3435.8
10°	8568.6	8018.2	6842.4	5533.1	4336.4	3531.7	3152.3	2968.8	2881.2	2847.8	2797.8
12.5°	8652.0	7909.8	6350.4	4607.5	3427.4	2927.1	2760.3	2718.6	2722.8	2739.5	2718.6
15°	8768.7	7813.9	5687.4	3781.9	2877.1	2635.2	2635.2	2643.6	2701.9	2710.3	2706.1
17.5°	8760.4	7626.3	5003.6	3114.7	2543.5	2510.1	2522.7	2601.8	2639.4	2651.9	2622.7
20°	8860.5	7451.2	4298.9	2660.2	2355.8	2405.9	2489.3	2510.1	2556.0	2564.3	2531.0
22.5°	8831.3	7013.3	3644.2	2301.6	2214.1	2310.0	2393.4	2418.4	2405.9	2380.9	2376.7
25°	8777.1	6638.0	3043.8	2064.0	2109.9	2214.1	2293.3	2247.4	2222.4	2226.6	2230.8
27.5°	8681.2	6162.8	2547.6	1897.2	1968.1	2122.3	2118.2	2101.5	2126.5	2105.6	2126.5
30°	8664.5	5687.4	2139.0	1747.1	1863.9	1976.4	1984.7	2014.0	2043.2	2005.6	2043.2
32.5°	8689.6	5166.2	1847.2	1655.3	1801.3	1805.4	1897.2	1926.4	1905.5	1822.1	1830.5
35°	8881.3	4765.9	1634.5	1605.3	1701.2	1705.4	1792.9	1755.4	1663.7	1613.7	1642.8
37.5°	9285.8	4432.3	1534.4	1559.4	1567.8	1622.0	1626.1	1551.1	1559.4	1555.3	1572.0
40°	9802.8	4178.0	1463.6	1517.8	1509.4	1547.0	1396.8	1438.5	1476.0	1488.6	1496.9
42.5°	10157.2	3994.6	1417.7	1451.1	1434.4	1367.7	1284.3	1325.9	1355.1	1401.0	1409.3
45°	10315.7	3848.6	1363.4	1334.3	1334.3	1213.3	1180.0	1188.4	1255.1	1305.1	1296.7
47.5°	10057.2	3706.8	1267.6	1180.0	1209.2	1109.1	1071.6	1071.6	1142.5	1205.0	1192.5
48°	9957.1	3648.5	1271.7	1146.6	1167.5	1092.4	1054.9	1046.6	1125.8	1184.2	1184.2
50°	9460.9	3431.7	1163.3	1054.9	1013.2	1004.9	979.8	988.2	1038.3	1092.4	1092.4
52.5°	8493.6	2964.6	984.1	904.8	829.7	879.8	892.3	875.6	900.6	950.6	946.5
55°	7088.4	2276.7	788.1	750.5	692.2	746.4	771.4	750.5	725.5	763.0	763.0
57.5°	4540.8	1225.9	629.6	638.0	579.6	633.8	654.7	604.6	558.7	588.0	583.7
60°	2047.3	733.8	517.0	504.6	467.0	529.5	562.9	504.6	442.0	462.8	483.7
62.5°	767.2	521.2	392.0	383.6	375.3	433.6	450.3	404.4	341.9	354.4	358.6
65°	562.9	458.7	312.7	283.5	300.2	341.9	333.6	287.7	246.0	246.0	254.3
67.5°	479.5	400.3	254.3	221.0	221.0	225.2	208.5	183.5	170.9	179.3	187.6
70°	375.3	316.9	200.1	170.9	154.3	137.6	120.9	116.7	104.2	116.7	112.6
72.5°	241.9	212.7	154.3	129.3	116.7	95.9	79.2	75.1	62.6	58.4	58.4
75°	129.3	129.3	120.9	104.2	91.8	75.1	62.6	50.0	33.4	25.1	25.1
77.5°	91.8	100.1	108.4	100.1	83.4	62.6	50.0	33.4	16.7	8.4	8.4
80°	87.5	100.1	108.4	95.9	83.4	62.6	45.9	25.1	12.5	4.1	4.1
82.5°	79.2	91.8	100.1	87.5	75.1	54.2	41.7	25.1	12.5	4.1	4.1
85°	16.7	20.8	25.1	25.1	29.2	37.5	29.2	20.8	8.4	4.1	4.1
87.5°	12.5	12.5	12.5	12.5	12.5	12.5	8.4	8.4	4.1	4.1	4.1
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)