

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: P651508

Luminaire Tested: **GALN-SA7D-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26499.9 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

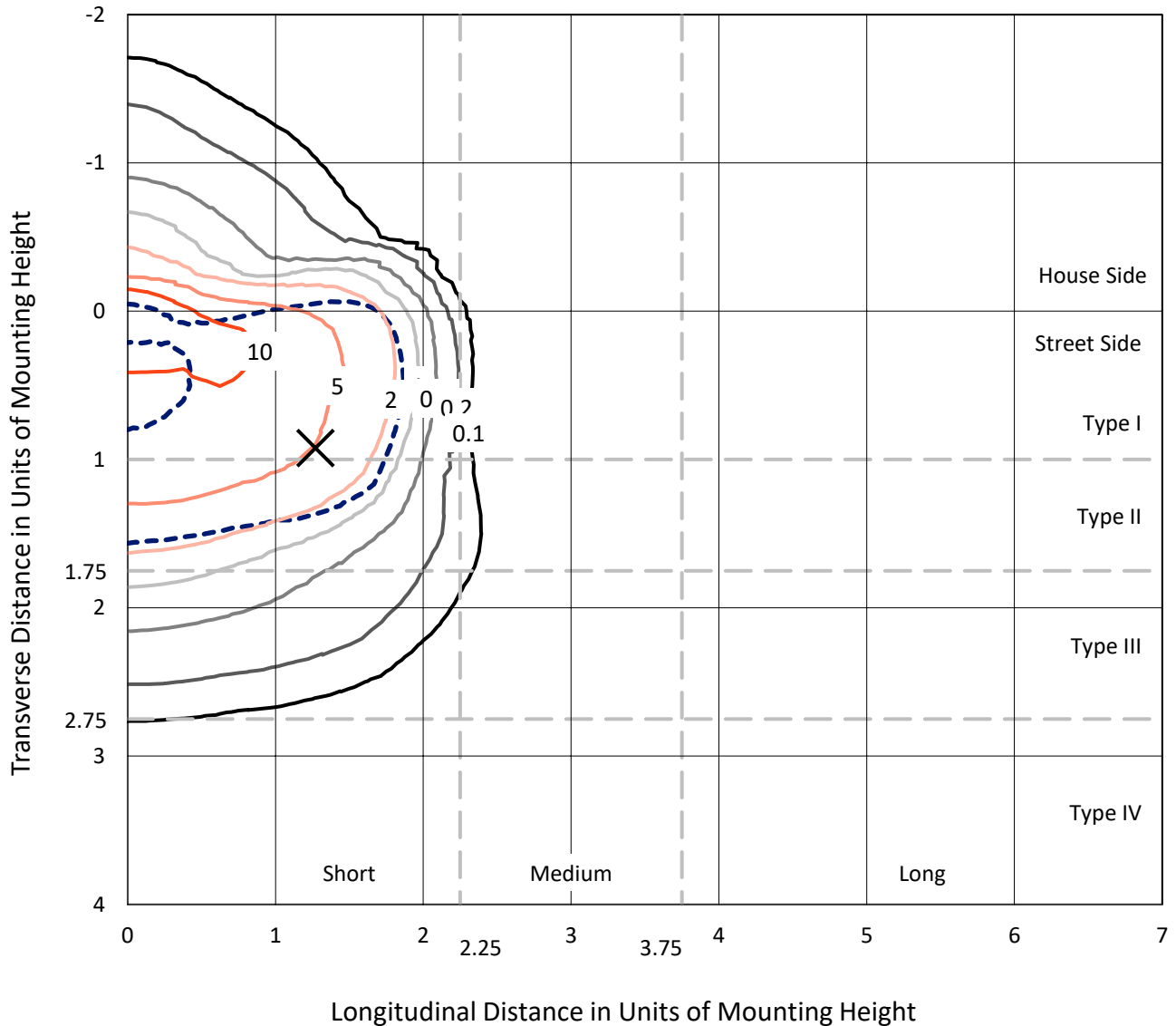
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

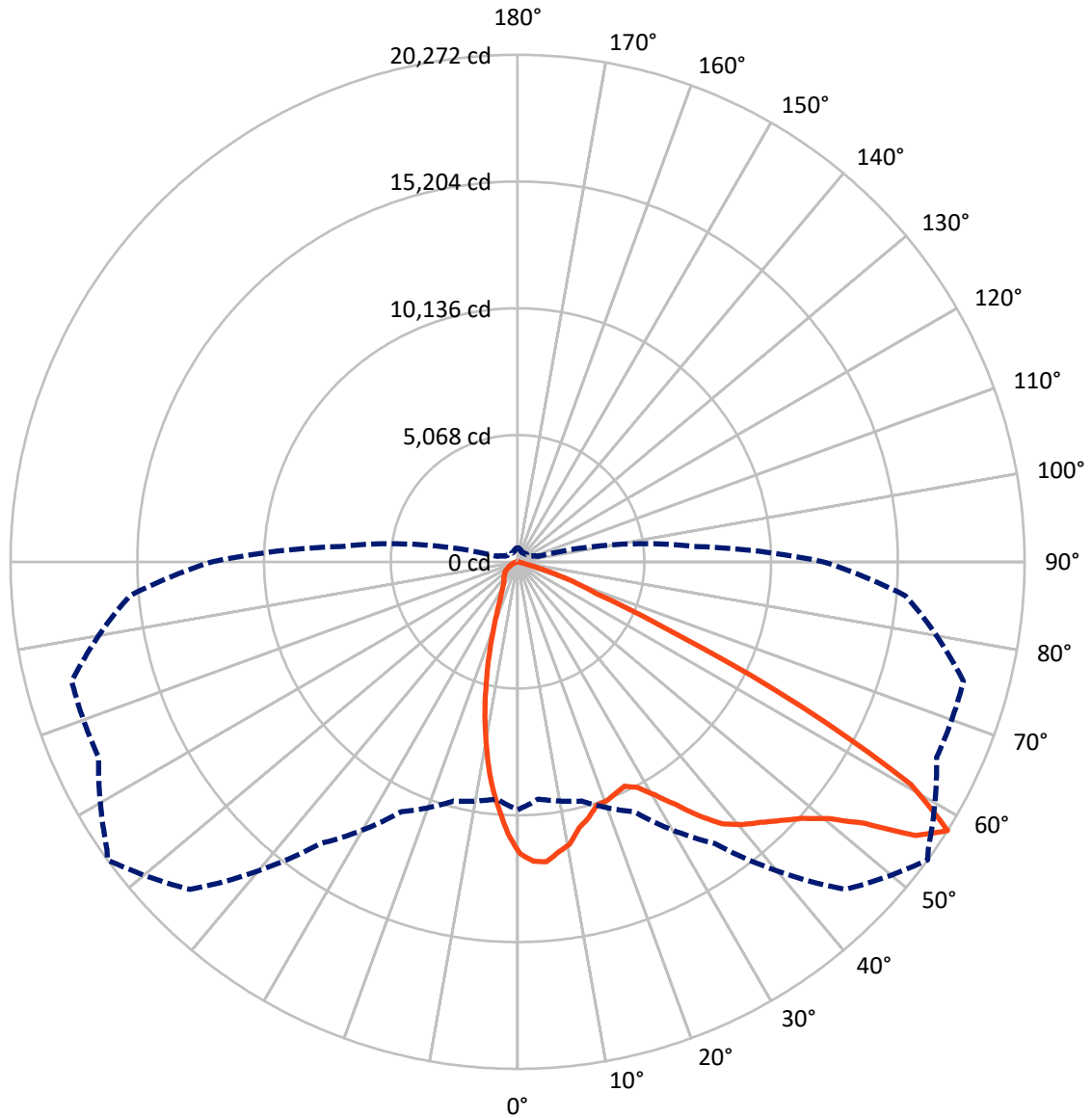
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3744.9	0.0	3744.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	22755.0	0.0	22755.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	26499.9	0.0	26499.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	976.9	3.7
10°-20°	2085.6	7.9
20°-30°	2763.8	10.4
30°-40°	4016.6	15.2
40°-50°	5956.1	22.5
50°-60°	7447.8	28.1
60°-70°	2937.8	11.1
70°-80°	292.5	1.1
80°-90°	22.7	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°	26499.9	100.0
0°-180°	26499.9	100.0

Coefficient of Utilization



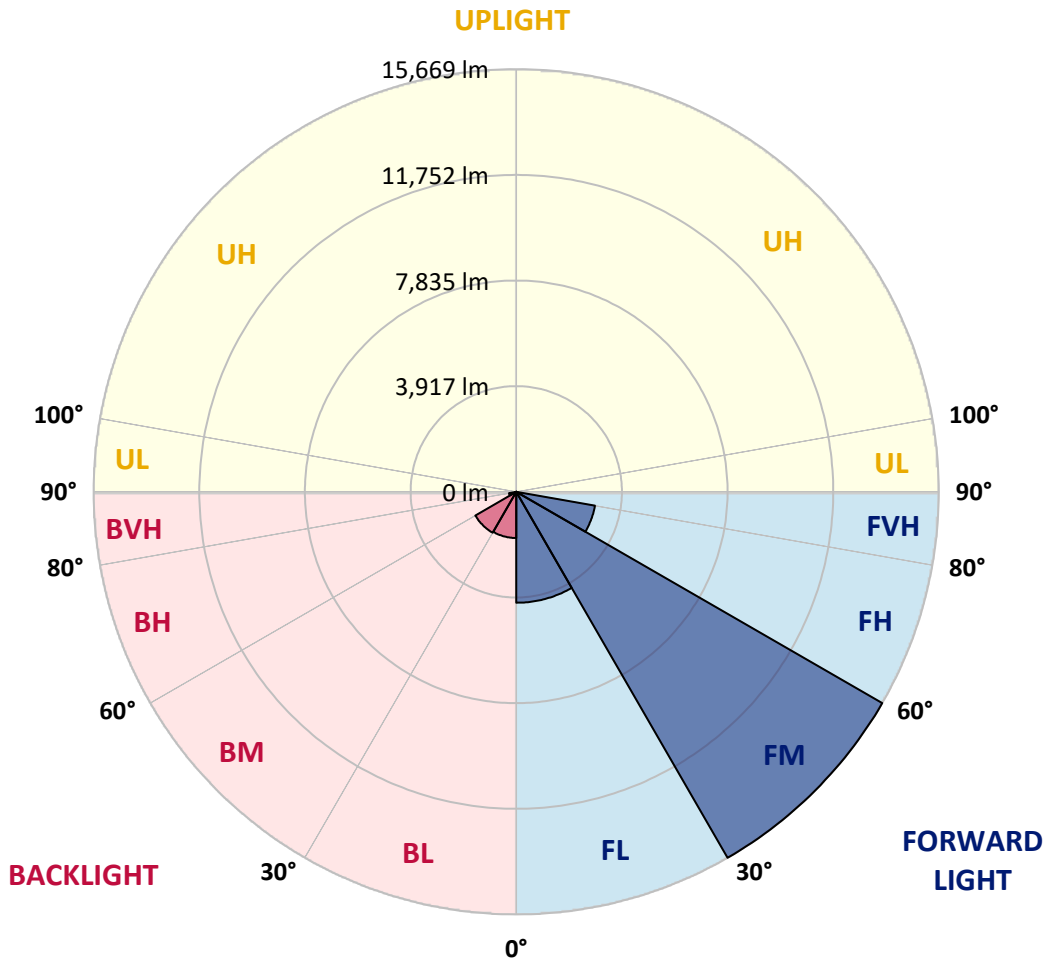
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4113.6	15.5			
FM (30°-60°)	15669.3	59.1			
FH (60°-80°)	2961.8	11.2			G2/5000
FVH (80°-90°)	10.3	0.0			G1/100
BL (0°-30°)	1712.7	6.5	B3/2500		
BM (30°-60°)	1751.2	6.6	B2/2500		
BH (60°-80°)	268.5	1.0	B1/500		G1/500
BVH (80°-90°)	12.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11673.6	11673.6	11673.6	11673.6	11673.6	11673.6	11673.6	11673.6	11673.6	11673.6	11673.6
2.5°	12353.6	12225.4	12235.3	12191.0	12131.8	12176.2	11984.0	12028.3	12023.4	11762.2	11589.8
5°	12043.1	12181.1	12038.2	12156.5	12043.1	12166.3	12048.1	11959.4	11816.5	11624.3	11304.0
7.5°	11515.9	11382.9	11422.3	11570.1	11594.7	11870.6	11722.9	11836.1	11777.0	11397.7	10959.1
10°	10456.4	10426.9	10624.0	10821.1	11062.5	11358.2	11471.5	11407.5	11363.1	11220.2	10633.9
12.5°	9643.4	9727.2	9722.2	10047.4	10456.4	10624.0	10919.6	10909.8	11156.2	10890.1	10328.3
15°	8869.8	8914.1	9121.1	9323.1	9776.5	10254.4	10619.1	10668.3	10963.9	10776.7	10091.8
17.5°	8396.7	8332.6	8495.3	8736.7	9199.9	9825.7	10229.8	10348.0	10752.1	10712.7	9820.8
20°	7928.5	7928.5	8061.6	8347.4	8771.2	9475.9	10195.3	10160.8	10752.1	10638.7	9530.0
22.5°	7770.8	7849.7	7884.2	8101.0	8603.7	9209.8	10047.4	10111.5	10835.9	10604.3	9402.0
25°	7987.7	7884.2	7894.0	8066.5	8539.6	9081.6	9939.0	10081.9	10988.6	10776.7	9298.4
27.5°	8022.2	8125.7	8155.3	8273.5	8588.9	9121.1	10210.1	10500.8	11368.0	11180.8	9328.0
30°	8322.8	8426.2	8421.4	8623.4	8840.2	9441.3	10816.2	10875.3	12151.5	11688.4	9510.4
32.5°	8687.4	8795.9	8830.3	9066.8	9239.3	10027.7	11555.3	11708.1	12905.5	12486.7	9988.3
35°	9140.7	9101.3	9259.0	9495.6	9865.1	10885.1	12457.1	12713.3	13718.6	13521.4	10481.0
37.5°	9707.4	9658.1	9810.9	10195.3	10697.9	11900.2	13289.8	13457.3	14309.9	14482.4	11392.7
40°	10106.5	10126.3	10589.5	11106.9	11639.1	12866.0	13817.1	13979.7	14723.8	15379.1	12082.6
42.5°	10771.8	10895.0	11451.8	12082.6	12639.4	13590.4	14245.8	14403.5	14916.0	16098.6	13013.9
45°	11737.6	11683.4	12299.4	13004.0	13620.0	14344.3	14753.3	14699.2	15029.3	16813.1	13600.2
47.5°	12979.4	12989.2	13398.2	13999.4	14640.0	14999.7	15320.0	15127.8	15265.8	17567.1	14383.8
50°	13827.0	13900.9	14231.0	14846.9	15167.3	15719.1	16128.1	16009.9	15965.5	18020.4	14876.5
52.5°	14043.8	14265.5	14442.9	15211.6	15960.6	16832.8	17355.1	17606.4	16818.0	18173.1	15502.3
55°	12407.8	12604.9	13230.7	14285.2	16261.2	18596.9	19316.3	19321.2	17931.6	18853.1	15940.9
57.5°	9919.3	9520.2	9904.5	11023.2	13748.1	18522.9	20272.3	20040.7	18488.5	18454.0	15561.4
60°	6859.3	6760.7	6785.4	7228.8	9515.2	14733.6	18064.7	18365.3	17025.0	15995.1	12319.1
62.5°	5435.2	5351.5	5243.0	5193.8	5908.2	9180.2	12742.8	13166.6	11905.2	10372.6	7302.7
65°	4257.5	4208.2	4223.0	4420.1	4415.2	5208.5	6967.7	6795.2	5440.1	4021.0	2296.3
67.5°	2872.8	2946.7	3005.8	3602.1	3907.6	3626.7	3365.6	3267.0	1769.0	744.0	507.5
70°	1616.2	1626.2	1690.2	2251.9	2966.5	2813.6	2320.9	2320.9	882.0	271.1	290.7
72.5°	882.0	852.5	793.3	970.8	1320.6	1340.3	1034.8	901.7	261.1	177.4	162.6
75°	428.7	423.8	364.7	300.6	285.8	236.5	182.3	167.5	118.2	113.4	98.6
77.5°	88.7	83.8	44.3	44.3	49.3	54.2	69.0	69.0	83.8	83.8	69.0
80°	0.0	0.0	5.0	19.7	34.5	49.3	59.1	59.1	69.0	69.0	54.2
82.5°	0.0	0.0	5.0	14.8	29.6	44.3	54.2	59.1	69.0	73.9	59.1
85°	0.0	0.0	0.0	9.8	24.6	34.5	29.6	29.6	24.6	19.7	9.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11673.6	11673.6	11673.6	11673.6	11673.6	11673.6	11673.6	11673.6	11673.6	11673.6	11673.6
2.5°	11501.1	11491.3	11264.6	11136.4	10904.8	10702.8	10540.3	10421.9	10421.9	10348.0	10279.0
5°	11175.9	11092.1	10609.2	10298.7	9860.2	9535.0	9313.2	9140.7	8869.8	8943.7	8653.0
7.5°	10771.8	10559.9	9919.3	9446.3	8840.2	8376.9	7903.9	7485.1	7081.1	6898.7	6997.2
10°	10338.2	9968.6	9106.3	8357.3	7603.3	6755.8	6203.9	5533.7	5119.8	5095.2	4986.8
12.5°	9879.9	9461.1	8411.5	7376.7	6386.2	5366.2	4523.6	3897.8	3616.9	3306.5	3365.6
15°	9535.0	8914.1	7637.8	6391.2	5075.4	4045.5	3198.1	2715.2	2449.1	2375.2	2350.5
17.5°	9160.5	8495.3	6849.4	5341.5	3981.5	2912.2	2301.2	2069.6	1966.1	1966.1	1951.4
20°	8771.2	8022.2	6065.9	4365.9	2986.1	2173.1	1843.0	1769.0	1764.1	1759.2	1759.2
22.5°	8515.0	7480.2	5356.3	3469.0	2251.9	1739.4	1601.5	1571.9	1591.6	1650.8	1650.8
25°	8243.9	6957.8	4572.9	2675.7	1744.4	1493.1	1414.2	1433.9	1483.2	1537.4	1517.8
27.5°	7968.0	6617.8	3833.7	2099.1	1429.0	1305.8	1276.2	1320.6	1374.8	1424.1	1409.3
30°	7903.9	6253.2	3134.0	1591.6	1227.0	1138.3	1158.0	1197.4	1251.7	1271.3	1291.0
32.5°	8002.5	5967.4	2567.3	1305.8	1069.3	1044.7	1044.7	1064.4	1098.9	1143.2	1128.5
35°	8283.3	5804.8	2030.2	1133.3	980.6	956.0	951.0	970.8	990.4	1005.2	990.4
37.5°	8712.1	5676.7	1660.6	1005.2	921.5	882.0	872.2	867.2	887.0	891.9	901.7
40°	9259.0	5745.6	1409.3	926.4	862.4	818.0	788.4	788.4	788.4	803.2	808.1
42.5°	9850.4	5839.2	1217.1	882.0	808.1	754.0	724.4	714.5	724.4	744.0	739.2
45°	10471.2	6021.6	1094.0	813.1	758.8	689.9	650.4	640.6	665.2	704.7	699.7
47.5°	11052.7	6282.8	1000.3	768.7	709.6	645.6	596.3	586.4	630.8	684.9	689.9
50°	11634.1	6736.1	965.8	734.2	675.1	601.1	556.8	547.0	596.3	665.2	680.0
52.5°	12304.3	7223.9	941.2	689.9	635.6	566.7	517.4	507.5	561.8	650.4	655.4
55°	12742.8	7637.8	921.5	611.0	561.8	512.5	473.1	468.1	527.2	606.1	625.8
57.5°	12230.4	7061.3	852.5	532.2	477.9	453.4	418.8	418.8	468.1	542.0	556.8
60°	9273.8	4646.8	606.1	428.7	404.1	389.3	374.5	374.5	413.9	468.1	473.1
62.5°	5430.3	2503.2	389.3	344.9	344.9	330.2	305.5	305.5	344.9	374.5	379.5
65°	1611.4	803.2	315.4	295.7	290.7	266.1	241.5	236.5	266.1	280.9	275.9
67.5°	463.2	369.5	261.1	246.4	241.5	202.0	187.3	182.3	187.3	177.4	172.5
70°	275.9	251.3	202.0	207.0	182.3	147.8	133.0	128.1	118.2	103.4	93.6
72.5°	152.7	152.7	147.8	157.7	128.1	98.6	83.8	69.0	54.2	44.3	39.4
75°	93.6	98.6	103.4	108.4	83.8	64.1	54.2	34.5	19.7	9.8	9.8
77.5°	64.1	69.0	73.9	78.8	69.0	59.1	44.3	24.6	5.0	0.0	0.0
80°	49.3	54.2	64.1	69.0	73.9	78.8	59.1	24.6	5.0	0.0	0.0
82.5°	54.2	59.1	73.9	69.0	69.0	69.0	54.2	24.6	5.0	0.0	0.0
85°	9.8	14.8	24.6	24.6	34.5	44.3	34.5	9.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)