

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: P456531

Luminaire Tested: **GALN-SA7D-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43139 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

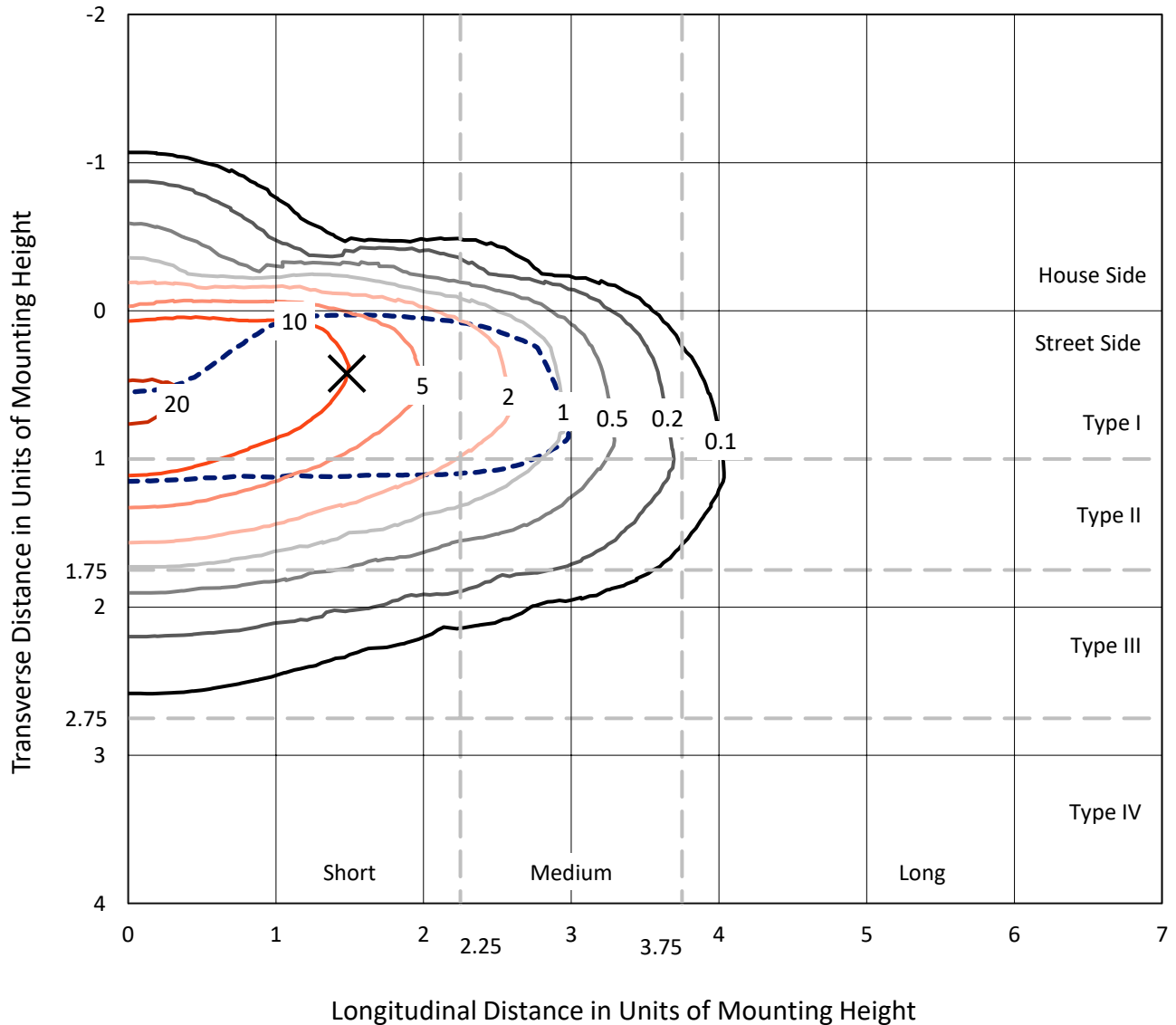
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

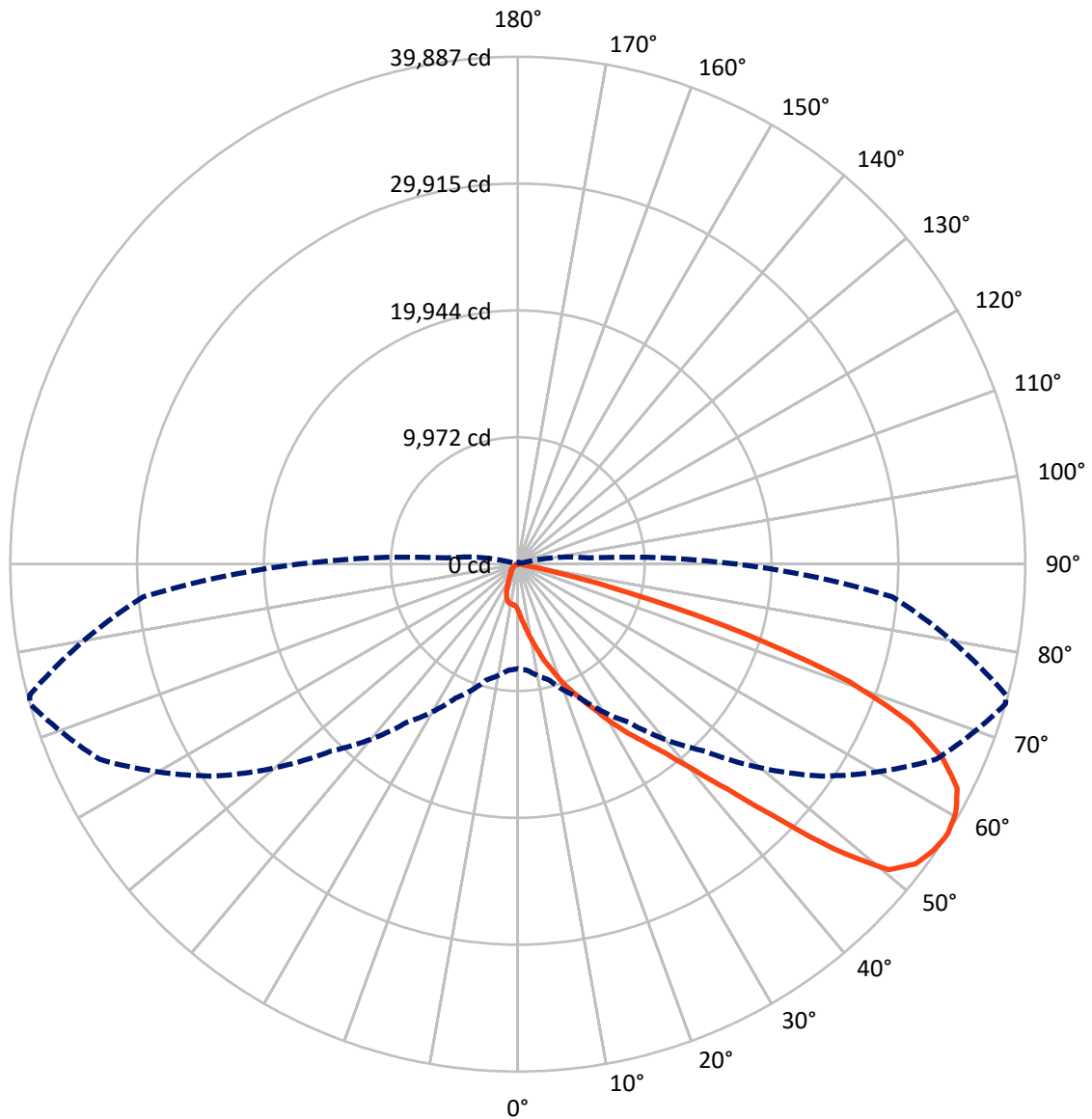
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2488.1	0.0	2488.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	40650.9	0.0	40650.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	43139.0	0.0	43139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.1	1.0
10°-20°	1718.8	4.0
20°-30°	3677.9	8.5
30°-40°	6759.9	15.7
40°-50°	10363.1	24.0
50°-60°	10962.8	25.4
60°-70°	7159.0	16.6
70°-80°	1956.1	4.5
80°-90°	105.3	0.2
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°	43139.0	100.0
0°-180°	43139.0	100.0

Coefficient of Utilization

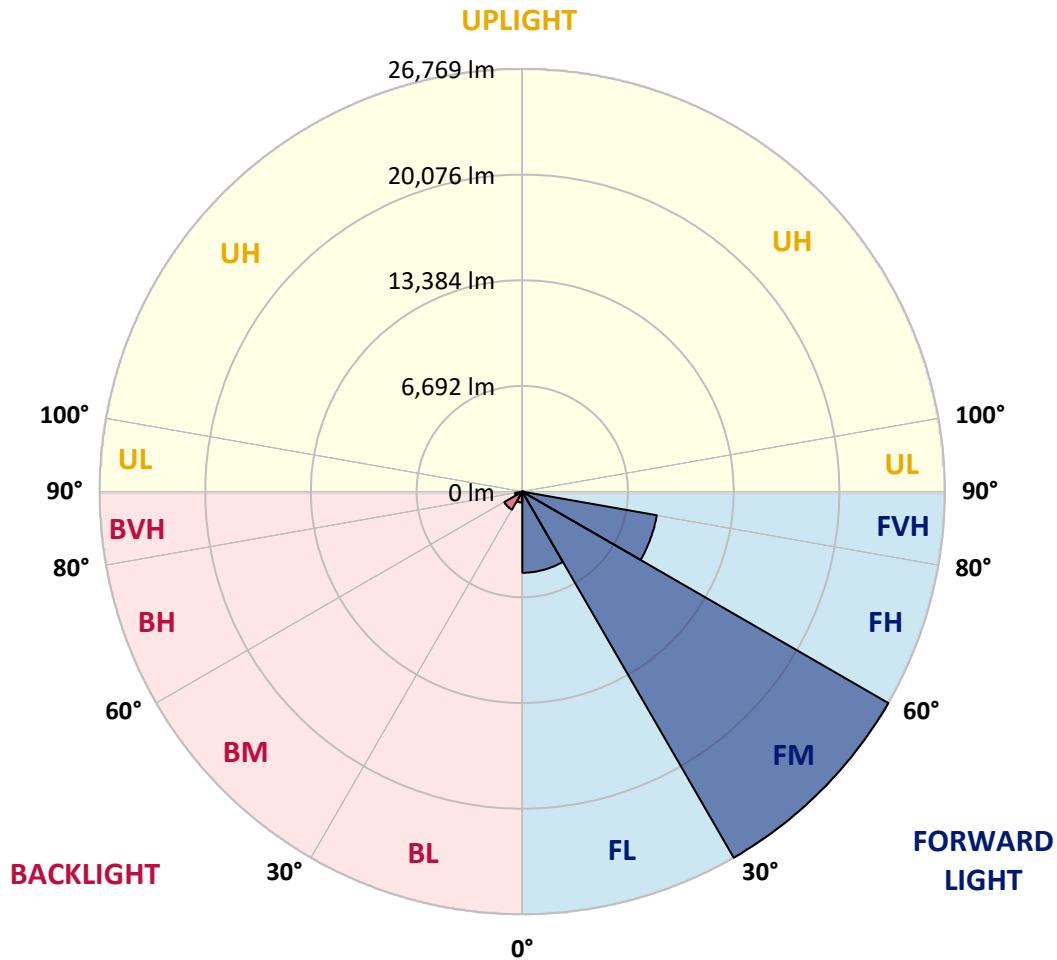


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5137.8	11.9			
FM (30°-60°)	26768.5	62.1			
FH (60°-80°)	8647.9	20.0			G4/12000
FVH (80°-90°)	96.6	0.2			G1/100
BL (0°-30°)	695.0	1.6	B2/1000		
BM (30°-60°)	1317.3	3.1	B2/2500		
BH (60°-80°)	467.1	1.1	B1/500		G1/500
BVH (80°-90°)	8.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8
2.5°	5286.7	5239.1	5143.7	5111.0	4971.0	4753.6	4563.0	4306.8	4104.3	4083.4	3839.2
5°	7079.7	6972.5	6927.8	6713.4	6376.8	6061.1	5519.0	5108.0	4634.4	4598.7	4107.3
7.5°	8807.2	8658.3	8613.6	8411.1	8017.9	7520.5	6817.6	6070.0	5319.5	5251.0	4467.6
10°	10058.2	10079.0	9998.6	9864.6	9545.9	9039.5	8172.8	7151.2	6082.0	5995.6	4872.7
12.5°	10954.7	10951.7	10966.6	10963.6	10793.8	10409.6	9498.2	8321.7	6921.9	6752.1	5337.3
15°	11538.4	11547.4	11592.0	11746.9	11764.8	11526.5	10767.0	9441.6	7895.8	7684.3	5840.7
17.5°	12128.2	12190.7	12262.2	12408.1	12539.2	12443.9	11907.8	10609.2	8777.4	8619.6	6379.8
20°	13102.1	13188.5	13146.8	13236.1	13304.6	13313.6	12899.6	11687.4	9846.7	9581.6	6996.3
22.5°	14659.8	14656.9	14549.6	14388.8	14254.8	14248.8	13873.5	12795.3	10817.7	10561.5	7615.8
25°	16628.6	16637.5	16429.0	15970.3	15636.8	15228.7	14796.8	13766.3	11857.1	11541.4	8268.1
27.5°	18886.2	18829.6	18513.9	17882.5	17221.3	16524.3	15901.8	14895.1	12959.1	12697.0	9015.7
30°	20914.5	20893.7	20524.4	19752.9	18883.2	18183.3	17280.8	16309.9	14385.8	14064.1	9852.6
32.5°	22802.9	22832.6	22320.4	21522.1	20682.2	19875.1	18922.0	17662.1	15785.7	15330.0	10764.0
35°	24277.2	24307.0	23776.8	23112.6	22248.9	21578.7	20670.3	19103.6	17167.7	16783.5	11812.5
37.5°	25063.5	25102.2	24795.4	24295.0	23756.0	23419.4	22573.5	20959.2	18847.5	18615.2	13051.5
40°	25212.4	25257.1	25123.1	24989.0	24959.2	25200.5	24953.3	23145.4	21176.6	20813.3	14898.1
42.5°	24765.6	24825.2	24884.8	25182.6	25790.2	26674.8	27535.6	26111.9	24175.9	23687.5	17155.8
45°	23592.1	23586.2	23821.5	24592.9	25954.0	27842.4	30234.0	29826.0	28262.3	27681.5	20345.7
47.5°	21584.7	21554.9	22064.2	23163.2	25283.9	28056.8	32435.1	34335.3	33477.5	32941.4	23773.8
50°	18525.8	18671.8	19473.0	21006.9	23618.9	27407.5	33114.2	37292.9	37757.6	37188.7	26543.8
52.5°	14942.8	14936.8	16193.7	18275.6	21152.8	25977.9	32640.6	37829.0	39148.5	38713.6	27907.9
55°	11058.9	11136.3	12443.9	14543.7	17951.0	23368.8	31094.8	37278.0	39678.6	39371.9	28807.4
57°	8226.4	8363.4	9411.8	11633.7	15163.2	20786.5	29036.7	36292.2	39887.1	39720.3	29555.0
57.5°	7678.4	7684.3	8705.9	10725.3	14347.1	19794.6	28447.0	35881.1	39881.2	39788.8	29677.1
60°	4726.8	4875.7	5581.6	7249.5	10501.9	15449.1	24494.6	33519.2	39571.4	39705.4	30198.3
62.5°	2829.5	2892.1	3350.7	4369.4	6770.0	11276.3	20044.8	30496.1	38764.3	39172.3	30162.6
65°	1819.8	1834.7	2043.2	2644.8	4232.3	7621.8	15446.1	26502.1	36676.4	37426.9	28983.1
67.5°	1405.8	1429.6	1513.0	1736.4	2454.2	4747.6	10924.9	22239.9	33298.8	34266.8	26123.8
70°	1248.0	1259.9	1289.7	1361.1	1623.2	2680.6	6796.8	17373.2	27613.0	27887.0	20443.9
72.5°	1018.6	1051.4	1143.7	1167.5	1286.7	1673.9	3782.6	11660.6	18552.6	18621.1	11437.2
75°	789.3	795.2	932.2	1000.8	1084.1	1152.7	1688.8	5879.4	8911.5	8434.9	4408.1
77.5°	589.7	616.5	679.1	765.5	884.6	825.0	756.5	2216.0	2767.0	2716.3	1280.7
80°	378.3	393.2	473.6	574.8	688.0	539.1	425.9	649.3	607.6	625.5	306.8
82.5°	190.6	193.6	303.8	467.6	437.8	271.0	268.1	265.1	226.4	223.4	143.0
85°	20.8	44.7	196.6	268.1	196.6	89.4	125.1	122.1	119.1	122.1	83.4
87.5°	3.0	3.0	32.8	38.7	26.8	29.8	35.7	38.7	47.7	44.7	35.7
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°	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8
2.5°	3720.1	3600.9	3380.5	3169.0	3011.2	2909.9	2778.9	2731.2	2662.7	2653.8	2621.0
5°	3880.9	3654.5	3270.3	2966.5	2722.3	2537.6	2376.8	2242.8	2135.5	2111.7	2123.6
7.5°	4110.2	3773.7	3237.6	2823.6	2484.0	2168.3	1912.2	1754.3	1641.1	1599.4	1605.4
10°	4369.4	3931.5	3231.6	2671.7	2153.4	1766.2	1486.2	1346.3	1280.7	1256.9	1230.1
12.5°	4676.1	4113.2	3216.7	2436.4	1790.0	1408.8	1209.2	1125.8	1063.3	1045.4	1045.4
15°	5021.6	4306.8	3145.2	2144.5	1453.5	1164.6	1030.5	965.0	944.2	926.3	926.3
17.5°	5382.0	4497.4	2996.3	1784.1	1206.3	997.8	914.4	875.7	845.9	825.0	825.0
20°	5793.0	4685.1	2758.0	1465.4	1018.6	890.6	825.0	780.3	756.5	738.7	732.7
22.5°	6183.2	4837.0	2454.2	1203.3	887.6	801.2	741.6	694.0	670.1	661.2	661.2
25°	6588.3	4929.3	2087.9	994.8	810.1	726.7	661.2	622.5	601.6	595.7	592.7
27.5°	6981.4	4982.9	1766.2	869.7	738.7	658.2	595.7	565.9	545.1	539.1	542.1
30°	7458.0	4991.8	1453.5	780.3	676.1	592.7	536.1	509.3	497.4	491.4	488.5
32.5°	7940.5	4979.9	1221.2	726.7	616.5	536.1	488.5	467.6	458.7	449.7	449.7
35°	8482.6	4917.4	1039.5	673.1	559.9	488.5	446.8	428.9	417.0	408.0	405.1
37.5°	9155.7	4884.6	935.2	613.6	509.3	443.8	405.1	387.2	378.3	366.3	363.4
40°	10216.0	5030.6	902.5	559.9	458.7	402.1	366.3	345.5	333.6	321.7	318.7
42.5°	11538.4	5286.7	848.9	506.3	414.0	363.4	327.6	303.8	283.0	268.1	262.1
45°	13251.0	5623.3	765.5	449.7	375.3	321.7	288.9	259.1	232.3	220.4	217.4
47.5°	15047.0	5947.9	691.0	405.1	333.6	285.9	250.2	217.4	193.6	184.7	181.7
50°	16149.0	6013.4	643.3	354.4	291.9	247.2	211.5	181.7	166.8	157.9	157.9
52.5°	16652.4	5909.2	577.8	309.8	253.2	217.4	181.7	157.9	148.9	143.0	140.0
55°	17003.9	5748.4	491.4	268.1	217.4	184.7	160.8	143.0	131.1	125.1	122.1
57°	17209.4	5530.9	425.9	235.3	187.6	160.8	143.0	128.1	116.2	104.2	104.2
57.5°	17218.3	5447.5	408.0	232.3	178.7	154.9	140.0	125.1	110.2	98.3	95.3
60°	16953.2	4875.7	327.6	196.6	143.0	131.1	116.2	98.3	77.4	65.5	62.5
62.5°	16101.4	4149.0	271.0	166.8	116.2	101.3	83.4	74.5	53.6	38.7	38.7
65°	14811.7	3365.6	232.3	134.0	95.3	74.5	56.6	53.6	32.8	17.9	14.9
67.5°	12947.2	2621.0	196.6	110.2	80.4	53.6	38.7	35.7	17.9	6.0	0.0
70°	9864.6	1787.1	163.8	89.4	59.6	38.7	26.8	20.8	11.9	3.0	0.0
72.5°	5685.8	982.9	137.0	68.5	44.7	29.8	20.8	11.9	11.9	0.0	0.0
75°	2031.3	422.9	104.2	50.6	35.7	23.8	14.9	6.0	8.9	3.0	0.0
77.5°	646.3	226.4	68.5	38.7	29.8	17.9	11.9	6.0	6.0	3.0	0.0
80°	190.6	119.1	41.7	32.8	20.8	14.9	8.9	3.0	6.0	3.0	0.0
82.5°	104.2	59.6	32.8	23.8	20.8	11.9	8.9	3.0	3.0	3.0	0.0
85°	53.6	35.7	26.8	23.8	20.8	11.9	8.9	3.0	0.0	3.0	3.0
87.5°	29.8	26.8	26.8	23.8	20.8	14.9	8.9	3.0	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)