

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: P456515

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
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-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44146 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

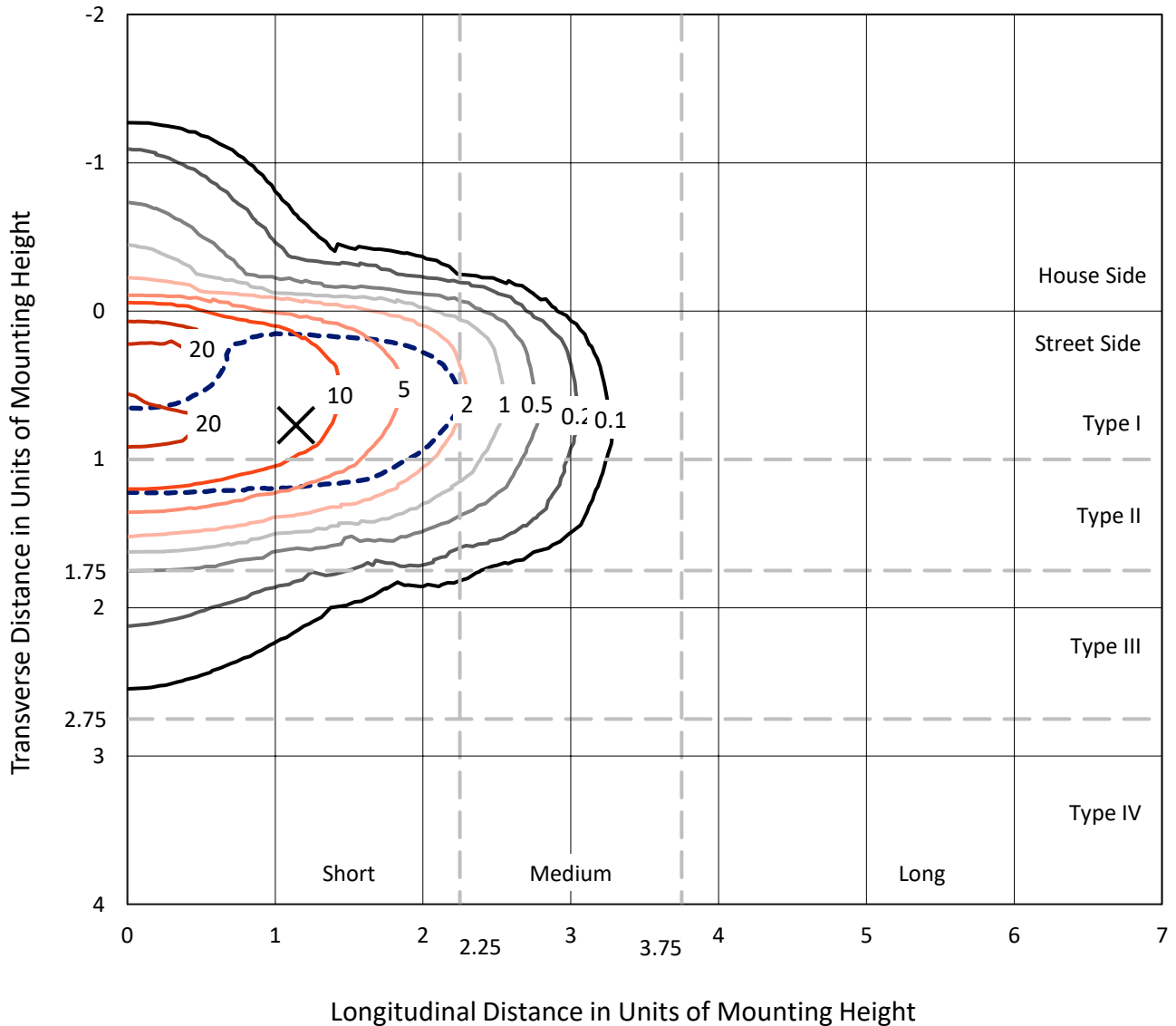
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

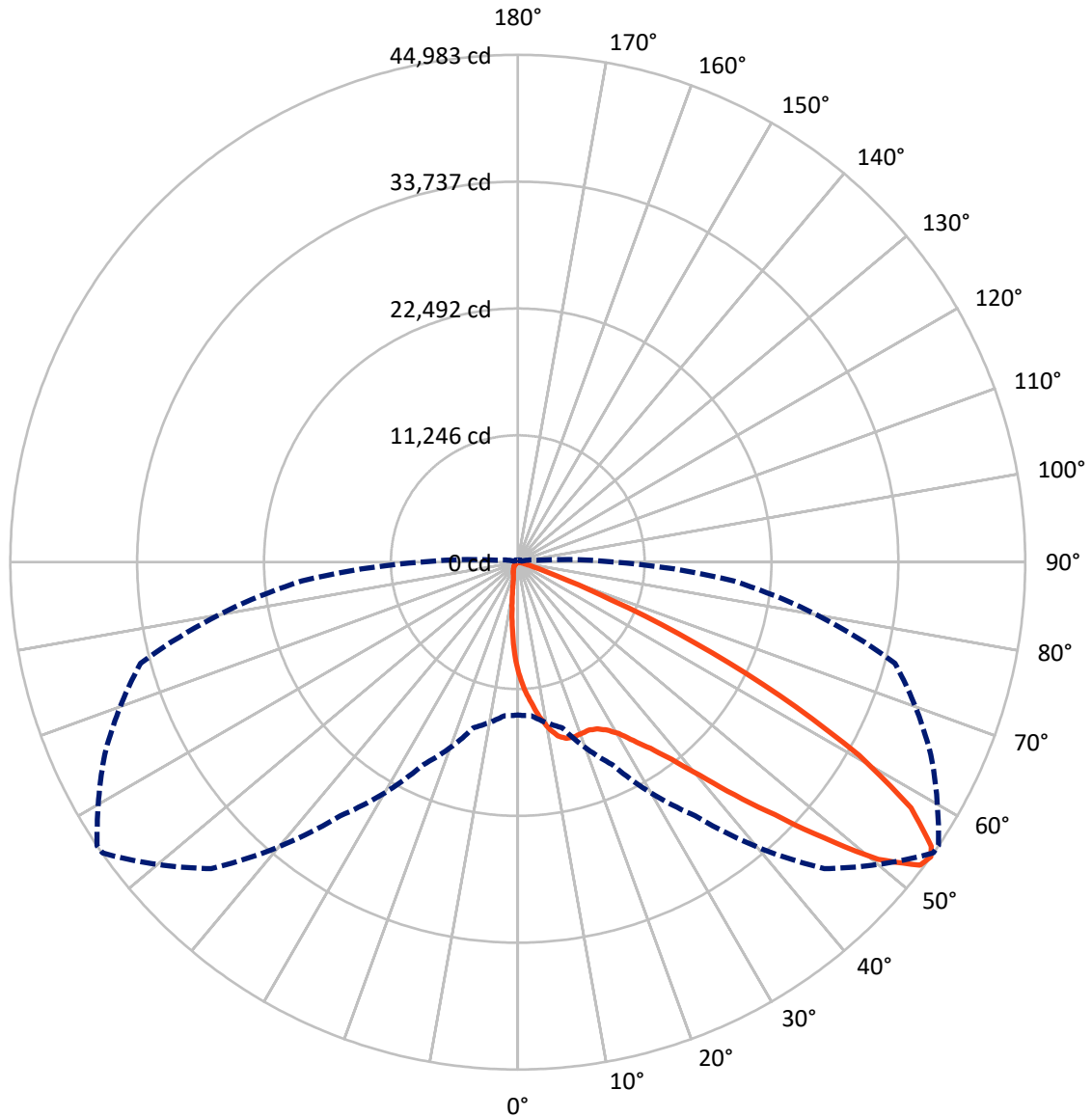
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2087.6	0.0	2087.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	42058.4	0.0	42058.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	44146.0	0.0	44146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	866.7	2.0
10°-20°	2343.0	5.3
20°-30°	4057.8	9.2
30°-40°	7004.4	15.9
40°-50°	11921.8	27.0
50°-60°	11798.0	26.7
60°-70°	5384.9	12.2
70°-80°	691.5	1.6
80°-90°	77.9	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°	44146.0	100.0
0°-180°	44146.0	100.0

Coefficient of Utilization



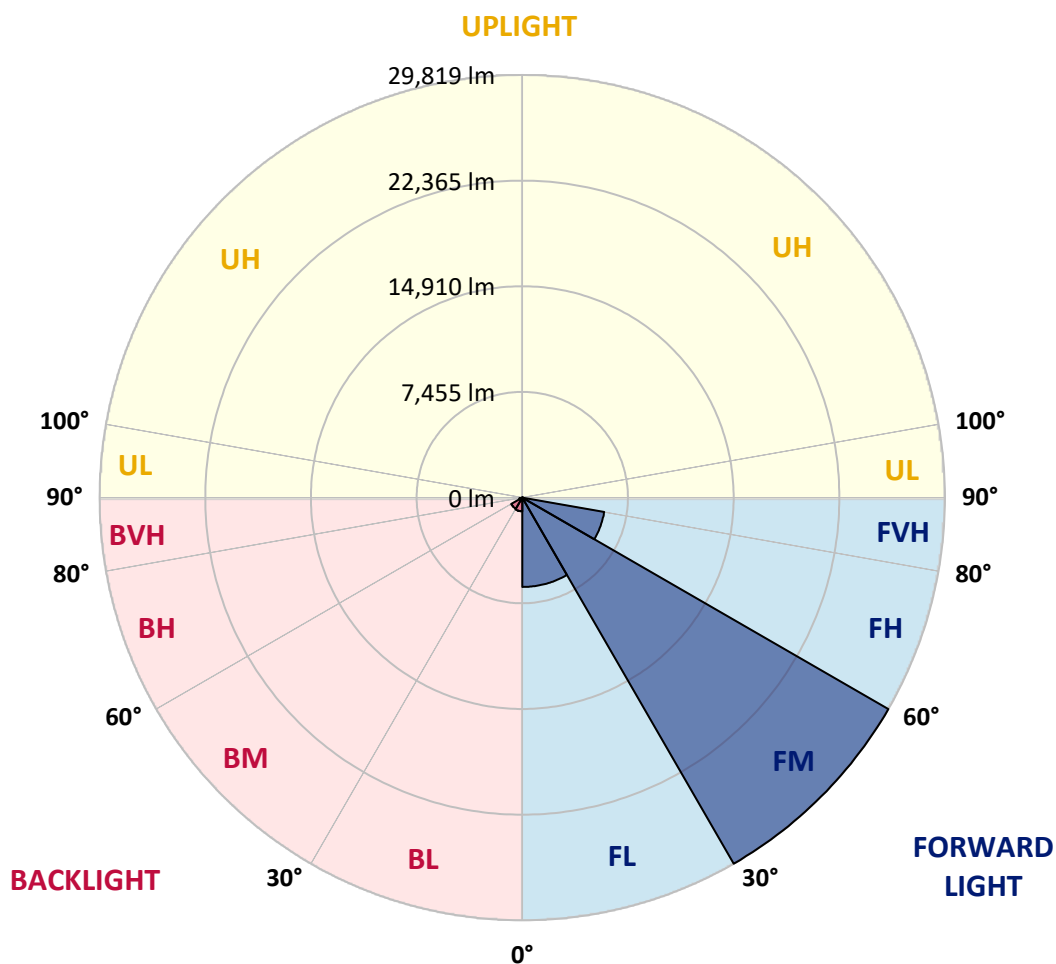
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6302.0	14.3			
FM (30°-60°)	29819.5	67.5			
FH (60°-80°)	5867.4	13.3			G3/7500
FVH (80°-90°)	69.6	0.2			G1/100
BL (0°-30°)	965.4	2.2	B2/1000		
BM (30°-60°)	904.7	2.0	B1/1000		
BH (60°-80°)	209.0	0.5	B1/500		G1/500
BVH (80°-90°)	8.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9808.0	9808.0	9808.0	9808.0	9808.0	9808.0	9808.0	9808.0	9808.0	9808.0	9808.0
2.5°	12464.7	12378.4	12259.2	12166.9	11949.5	11636.7	11306.1	11306.1	10987.4	10543.6	10090.9
5°	14376.9	14320.3	14204.1	13965.9	13721.6	13283.8	12619.6	12503.5	11934.6	11130.4	10284.5
7.5°	15154.3	15181.1	15187.0	15124.5	15008.3	14576.4	13918.2	13837.8	12929.4	11851.2	10537.7
10°	14409.6	14540.7	14668.8	14927.9	15294.2	15398.5	15026.2	14942.8	14049.3	12580.9	10811.7
12.5°	13301.7	13373.2	13444.6	13852.7	14588.4	15431.2	15821.4	15818.4	15061.9	13307.6	11160.2
15°	12786.4	12848.9	12854.9	13036.6	13674.0	14901.1	16161.0	16205.6	16050.8	14204.1	11535.5
17.5°	12893.6	12944.3	12902.6	12947.2	13280.8	14317.3	16122.2	16271.2	16852.0	15064.9	11875.0
20°	13593.6	13691.8	13531.0	13405.9	13507.2	14162.4	15991.2	16199.7	17417.9	15904.8	12184.8
22.5°	14850.5	14904.1	14701.5	14359.0	14180.3	14487.1	15955.5	16161.0	17900.4	16592.8	12363.5
25°	16247.3	16229.5	16006.1	15621.9	15246.6	15142.3	16190.7	16375.4	18299.5	17212.4	12417.1
27.5°	17644.2	17697.8	17322.6	16846.0	16396.3	16125.2	16717.9	16854.9	18749.2	17918.2	12482.6
30°	19267.5	19181.1	18811.8	18266.7	17751.4	17373.2	17566.8	17605.5	19368.7	18853.5	12655.4
32.5°	21379.2	21140.9	20726.9	19773.8	19404.5	18764.1	18811.8	18859.4	20122.3	19779.8	12863.8
35°	24244.4	24232.5	23422.4	22138.7	21239.2	20443.9	20235.5	20274.2	21263.0	21155.8	13325.5
37.5°	27693.4	27741.1	26817.8	25525.2	23869.1	22606.3	22177.4	22183.4	22996.5	23056.0	14028.4
40°	30502.1	30627.2	30076.2	29203.5	27568.4	25593.7	24872.9	24807.3	25432.8	25358.4	15032.1
42.5°	31711.4	31827.5	32033.0	32336.8	31437.3	29808.1	28107.5	28196.8	28387.4	27866.2	16158.0
45°	31118.6	31303.3	32110.5	33986.9	34832.7	34284.7	32256.4	31943.7	31136.5	30591.5	17289.8
47.5°	28649.5	29099.3	30448.5	33572.9	36533.4	38386.0	36938.5	36524.5	33888.6	32581.1	18010.6
50°	24589.9	24616.7	26496.1	30490.2	35651.8	40974.3	41718.9	41409.1	36453.0	33698.0	18373.9
52.5°	17825.9	18412.7	20134.2	24759.7	31833.5	40581.1	44765.8	44637.7	39097.9	34269.8	18898.1
54°	13551.9	13665.0	15196.0	19785.7	27446.2	38421.8	44953.5	44983.2	40411.3	34615.3	19207.9
55°	11109.5	10838.5	12446.9	16854.9	24452.9	36512.6	44339.9	44482.9	41001.1	34794.0	19437.2
57.5°	5265.9	5268.8	6498.9	8890.6	15315.1	28351.7	40590.1	41096.4	41066.6	35100.8	20143.1
60°	2665.7	2683.6	2954.6	4104.3	7565.2	18847.5	33561.0	34767.2	37906.5	35145.5	20375.4
62.5°	1864.5	1843.6	1799.0	1974.7	3183.9	9578.6	24986.1	26034.5	32205.8	33444.8	19636.8
65°	1596.4	1551.8	1426.7	1399.9	1608.4	3815.4	15562.3	17271.9	24589.9	28959.3	17534.0
67.5°	1364.1	1346.3	1233.1	1164.6	1137.8	1662.0	8029.8	8929.3	16807.3	20816.3	13280.8
70°	1158.6	1149.7	1081.2	994.8	920.3	994.8	2978.4	3690.3	9367.2	11207.8	6266.6
72.5°	941.2	950.1	962.0	851.8	774.4	705.9	1271.8	1480.3	3919.6	4006.0	2192.1
75°	825.0	816.1	816.1	741.6	646.3	524.2	699.9	753.5	1200.3	1113.9	509.3
77.5°	580.8	559.9	655.3	610.6	539.1	372.3	399.1	422.9	497.4	425.9	238.3
80°	402.1	402.1	420.0	548.0	485.5	271.0	244.2	262.1	294.9	253.2	137.0
82.5°	226.4	232.3	274.0	291.9	283.0	181.7	160.8	163.8	196.6	172.7	86.4
85°	26.8	44.7	157.9	154.9	116.2	80.4	89.4	92.3	122.1	107.2	50.6
87.5°	3.0	6.0	32.8	41.7	29.8	32.8	32.8	32.8	41.7	47.7	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°	9808.0	9808.0	9808.0	9808.0	9808.0	9808.0	9808.0	9808.0	9808.0	9808.0	9808.0
2.5°	9846.7	9620.3	9081.2	8455.8	8056.7	7407.4	6859.3	6463.2	6364.9	6174.3	6230.9
5°	9834.8	9364.2	8265.1	7103.6	5864.5	4941.2	4253.2	3711.1	3472.9	3315.0	3204.8
7.5°	9840.7	9105.1	7341.8	5492.2	4011.9	3106.5	2469.1	2138.5	1918.1	1825.8	1837.7
10°	9858.6	8813.2	6269.6	4068.5	2707.4	2007.5	1617.3	1459.4	1385.0	1373.1	1370.1
12.5°	9900.3	8494.5	5245.0	3020.1	1894.3	1459.4	1310.5	1256.9	1233.1	1233.1	1224.1
15°	9945.0	8143.0	4393.2	2245.7	1459.4	1253.9	1185.4	1158.6	1143.7	1143.7	1140.7
17.5°	9945.0	7738.0	3597.9	1742.4	1256.9	1152.7	1099.0	1063.3	1051.4	1051.4	1048.4
20°	9882.4	7267.4	2892.1	1402.8	1140.7	1057.3	1003.7	965.0	950.1	944.2	941.2
22.5°	9665.0	6638.9	2302.3	1206.3	1045.4	973.9	905.4	860.8	848.9	842.9	845.9
25°	9277.8	5930.1	1822.8	1060.3	959.1	872.7	813.1	780.3	768.4	768.4	771.4
27.5°	8878.7	5188.4	1444.5	950.1	854.8	777.4	729.7	708.9	705.9	714.8	717.8
30°	8509.4	4443.8	1170.5	860.8	762.5	697.0	664.2	658.2	658.2	661.2	664.2
32.5°	8098.4	3791.5	979.9	783.3	688.0	631.4	613.6	613.6	619.5	619.5	625.5
35°	7839.2	3231.6	860.8	708.9	631.4	583.8	571.9	574.8	583.8	595.7	601.6
37.5°	7699.2	2784.8	783.3	649.3	577.8	545.1	533.1	539.1	559.9	580.8	583.8
40°	7711.2	2448.3	720.8	598.7	536.1	500.4	491.4	509.3	530.2	551.0	554.0
42.5°	7842.2	2198.1	661.2	539.1	500.4	449.7	446.8	464.6	473.6	494.4	497.4
45°	7997.1	2016.4	598.7	476.5	434.9	390.2	393.2	408.0	420.0	452.7	458.7
47.5°	8044.7	1891.3	527.2	405.1	357.4	342.5	345.5	354.4	378.3	408.0	411.0
50°	8098.4	1813.9	458.7	342.5	303.8	300.8	303.8	309.8	324.6	336.6	333.6
52.5°	8327.7	1810.9	402.1	297.8	259.1	265.1	268.1	265.1	253.2	235.3	229.3
54°	8542.1	1819.8	375.3	277.0	238.3	247.2	244.2	229.3	199.6	181.7	172.7
55°	8714.9	1828.8	360.4	262.1	226.4	229.3	232.3	202.5	163.8	145.9	140.0
57.5°	9054.4	1807.9	324.6	229.3	199.6	187.6	184.7	134.0	89.4	77.4	71.5
60°	8884.7	1632.2	294.9	196.6	169.8	151.9	125.1	74.5	44.7	32.8	32.8
62.5°	8217.5	1385.0	262.1	160.8	140.0	116.2	65.5	41.7	20.8	11.9	8.9
65°	7350.8	1164.6	235.3	128.1	110.2	74.5	35.7	26.8	8.9	0.0	0.0
67.5°	5465.4	863.7	199.6	101.3	83.4	47.7	23.8	14.9	3.0	0.0	0.0
70°	2531.7	527.2	169.8	77.4	59.6	35.7	17.9	8.9	0.0	0.0	0.0
72.5°	726.7	330.6	140.0	56.6	41.7	29.8	14.9	6.0	3.0	0.0	0.0
75°	253.2	265.1	104.2	41.7	32.8	20.8	11.9	6.0	3.0	0.0	0.0
77.5°	151.9	214.4	65.5	35.7	26.8	17.9	11.9	6.0	3.0	3.0	0.0
80°	86.4	143.0	41.7	29.8	23.8	14.9	8.9	6.0	3.0	3.0	0.0
82.5°	47.7	68.5	32.8	26.8	20.8	14.9	8.9	6.0	3.0	3.0	3.0
85°	38.7	35.7	26.8	23.8	17.9	11.9	8.9	3.0	0.0	0.0	0.0
87.5°	29.8	23.8	23.8	23.8	17.9	11.9	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)