

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: P456162

Luminaire Tested: **GALN-SA7B-827-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21076 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

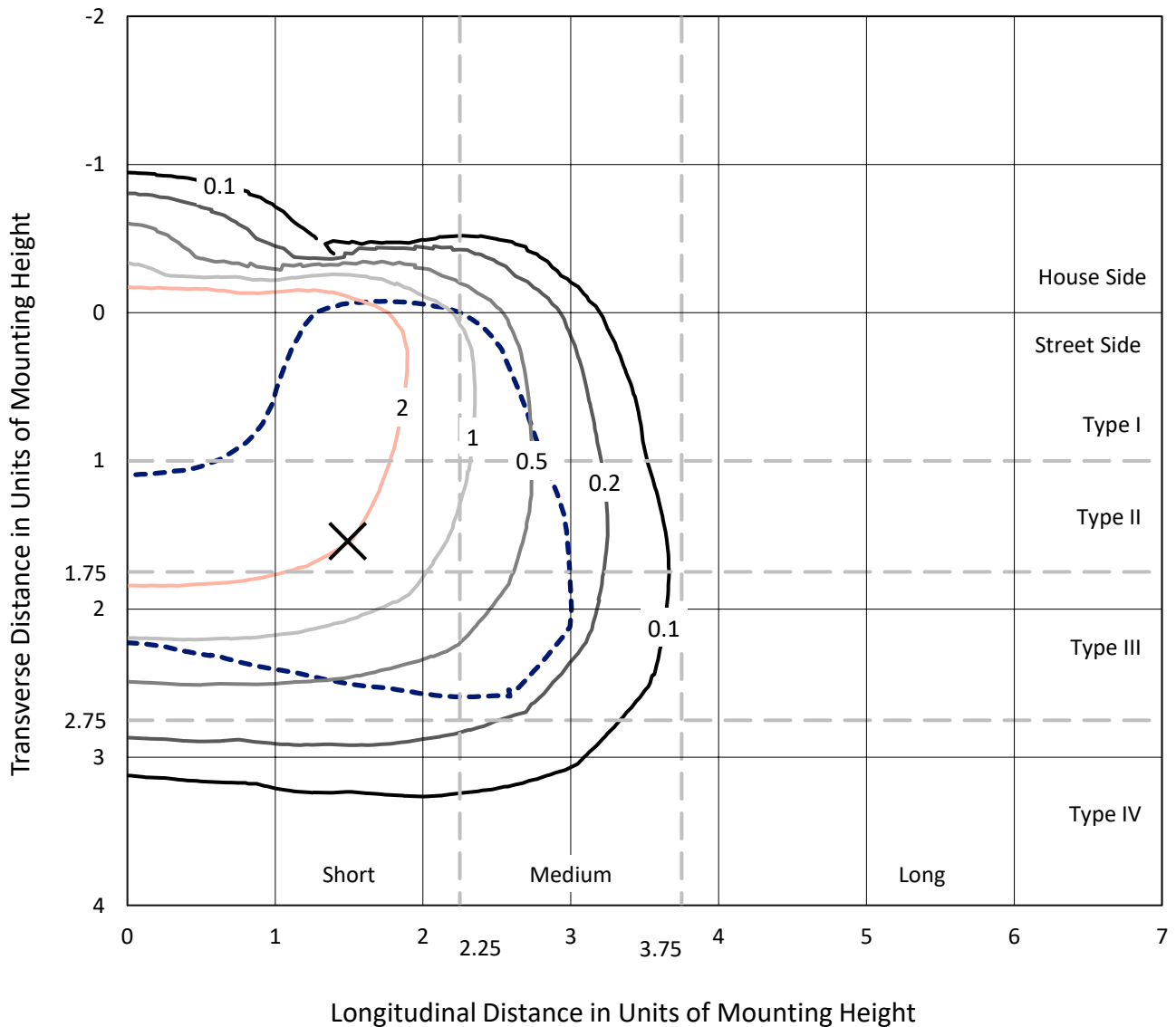
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

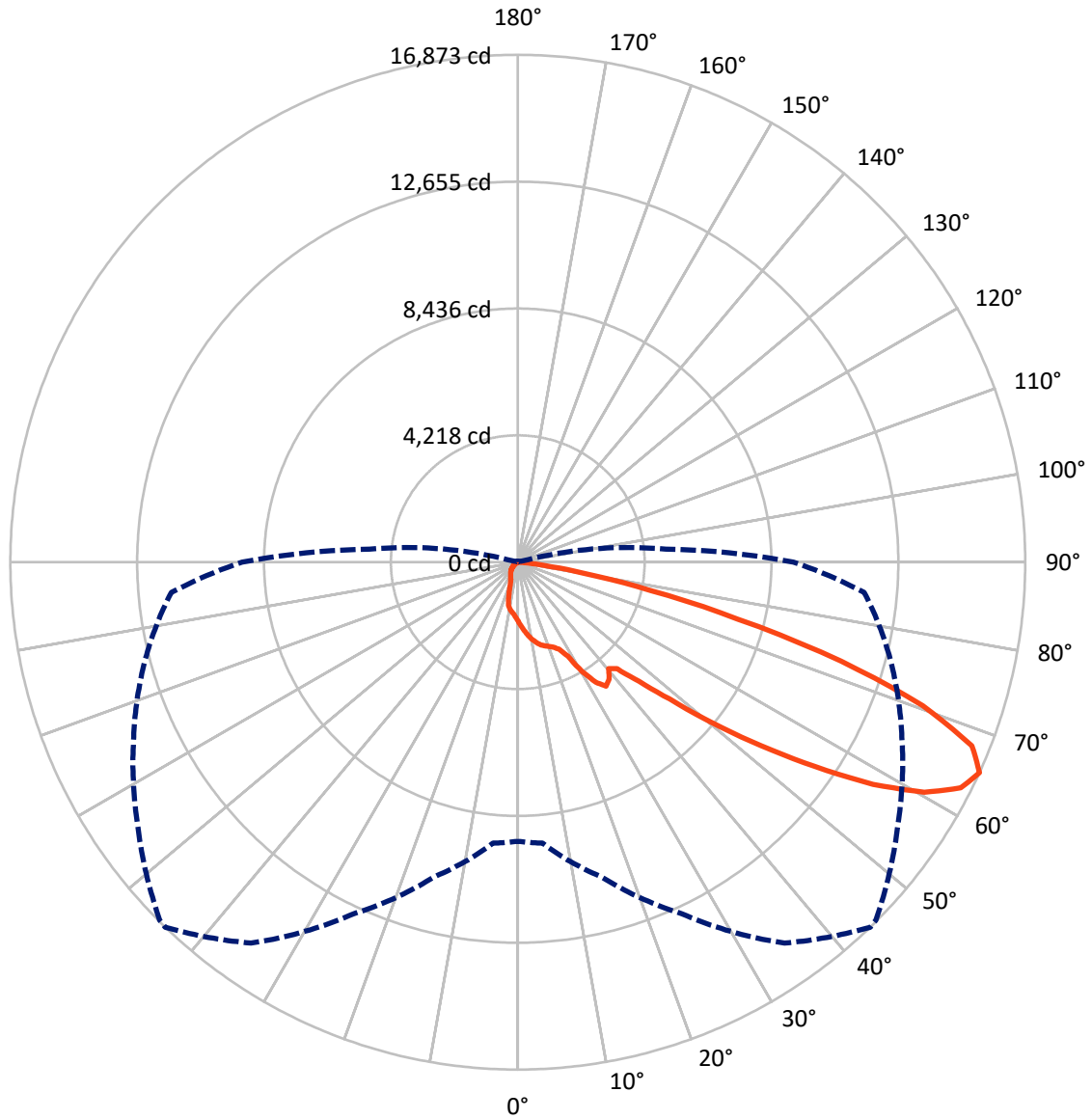
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1941.8	0.0	1941.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	19134.2	0.0	19134.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	21076.0	0.0	21076.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	0.9
10°-20°	587.2	2.8
20°-30°	995.6	4.7
30°-40°	1655.4	7.9
40°-50°	2890.4	13.7
50°-60°	5646.8	26.8
60°-70°	6551.6	31.1
70°-80°	2385.8	11.3
80°-90°	168.1	0.8
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°	21076.0	100.0
0°-180°	21076.0	100.0



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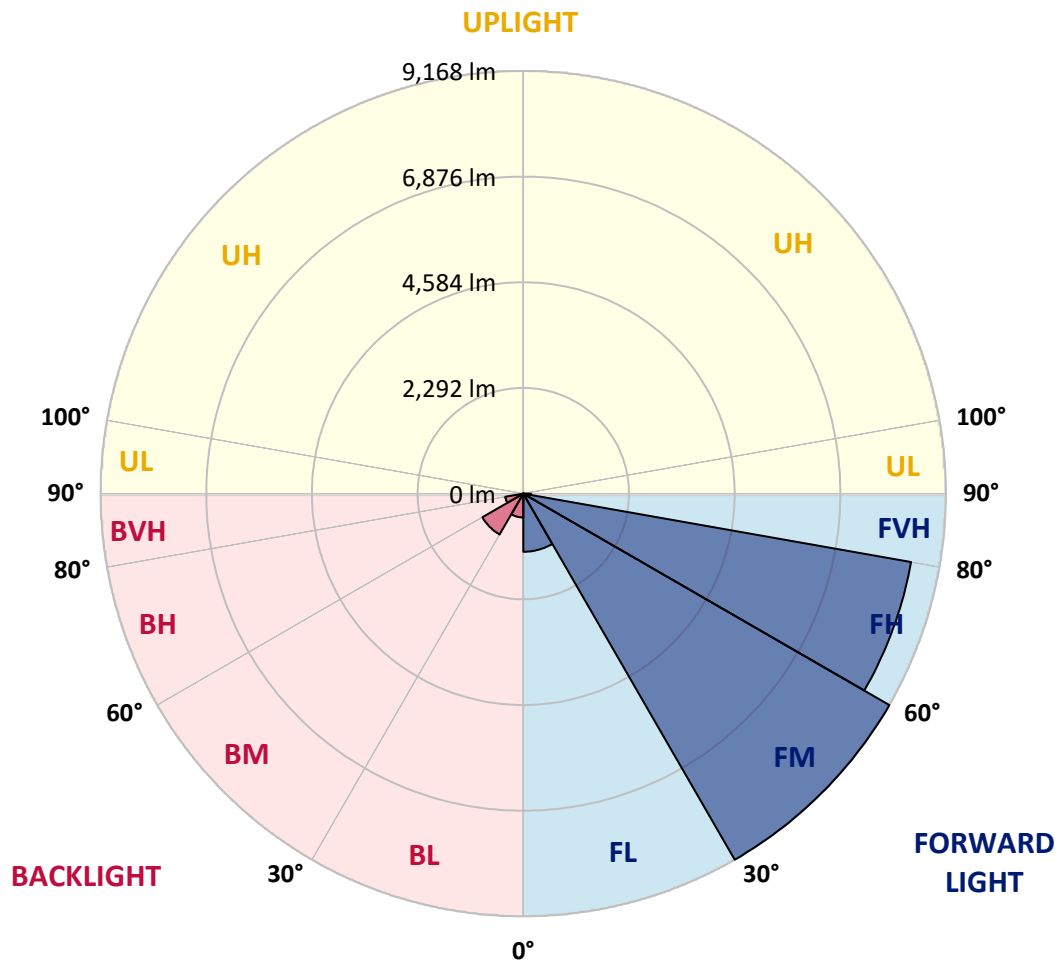
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1260.5	6.0			
FM (30°-60°)	9168.1	43.5			
FH (60°-80°)	8539.7	40.5			G4/12000
FVH (80°-90°)	165.8	0.8			G2/225
BL (0°-30°)	517.4	2.5	B2/1000		
BM (30°-60°)	1024.5	4.9	B2/2500		
BH (60°-80°)	397.7	1.9	B1/500		G1/500
BVH (80°-90°)	2.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5
2.5°	2207.9	2198.3	2193.5	2167.7	2148.4	2124.2	2124.2	2093.6	2058.2	2019.5	1984.1
5°	2454.3	2438.2	2417.3	2394.8	2349.7	2285.3	2285.3	2220.8	2146.8	2080.7	2008.3
7.5°	2691.1	2676.6	2641.2	2597.7	2523.6	2456.0	2451.1	2357.7	2269.1	2169.3	2066.2
10°	2898.8	2887.6	2857.0	2773.2	2695.9	2607.3	2605.7	2501.1	2398.0	2275.6	2148.4
12.5°	3043.8	3045.4	3005.1	2924.6	2824.8	2741.0	2734.6	2631.5	2523.6	2391.5	2235.3
15°	3146.8	3146.8	3105.0	3014.8	2924.6	2850.5	2844.1	2753.9	2642.8	2499.4	2330.3
17.5°	3175.8	3185.5	3140.4	3059.9	2987.4	2923.0	2921.4	2845.7	2757.1	2618.6	2427.0
20°	3164.6	3174.2	3138.8	3076.0	3026.1	2989.0	2984.2	2953.6	2871.5	2741.0	2530.0
22.5°	3140.4	3150.1	3124.3	3087.3	3063.1	3074.4	3066.3	3092.1	3048.6	2890.8	2652.4
25°	3145.2	3154.9	3135.6	3114.6	3135.6	3204.8	3225.8	3336.9	3298.2	3080.8	2784.5
27.5°	3296.6	3315.9	3288.6	3298.2	3372.3	3533.4	3573.6	3765.3	3594.6	3322.4	2990.6
30°	3633.2	3620.3	3568.8	3615.5	3873.2	4214.6	4203.3	4172.7	3905.4	3601.0	3235.4
32.5°	3939.2	3927.9	3924.7	4126.0	4593.0	4758.9	4750.9	4454.5	4184.0	3919.9	3477.0
35°	4063.2	4019.7	4010.1	4498.0	5279.1	5060.1	5010.2	4570.5	4522.2	4267.7	3723.4
37.5°	4436.8	4406.2	4256.5	4559.2	5005.3	4932.9	4894.2	4770.2	4882.9	4575.3	4002.0
40°	5206.6	5121.3	4986.0	4689.7	4617.2	4647.8	4686.5	5026.3	5309.7	4995.7	4374.0
42.5°	6163.3	6143.9	5892.7	5340.3	4797.6	4839.4	4889.4	5560.9	5923.3	5628.6	4981.2
45°	7311.5	7338.9	6976.5	6324.3	5612.5	5647.9	5720.4	6350.1	6754.3	6612.6	5936.2
47.5°	8355.1	8334.2	8211.8	7533.8	6876.7	6797.8	6915.3	7363.0	7904.2	7926.7	7121.5
50°	9405.1	9516.2	9334.3	9068.5	8580.6	8414.7	8371.2	8590.2	9414.8	9306.9	8545.1
52.5°	10914.1	10972.1	10630.7	10563.0	10674.2	10136.3	10092.8	10145.9	10883.5	10513.1	9611.3
55°	11862.7	11828.9	11701.6	12229.9	12669.5	11998.0	11943.2	11729.0	12102.6	11365.1	10637.1
57.5°	12162.2	12210.5	12506.9	13461.9	14502.2	13932.1	13832.3	13223.5	12982.0	12159.0	11580.9
60°	12028.6	12117.1	12756.5	14176.9	15619.9	15534.6	15449.2	14426.6	13613.3	12822.5	12242.8
62.5°	11076.8	11200.8	12223.4	14049.7	15998.4	16531.4	16425.1	15177.0	14033.6	13144.6	12358.7
65°	9282.7	9374.5	10843.3	12895.0	15460.5	16872.8	16834.2	15412.2	14099.6	12849.9	11564.8
67.5°	6617.4	6929.8	8290.7	10867.4	13869.3	16289.9	16355.9	15130.3	13479.6	11576.0	9577.4
70°	4159.8	4372.4	5348.4	7780.2	11118.7	14291.3	14508.7	13840.3	11698.4	9023.4	6411.3
72.5°	1984.1	2141.9	2837.6	4924.8	7847.8	11244.3	11416.6	11361.8	9046.0	5684.9	3307.9
75°	884.1	943.7	1354.4	2513.9	5066.5	7557.9	8004.0	8078.1	5652.7	2781.3	1286.8
77.5°	450.9	452.5	634.5	1217.5	2530.0	4509.3	4597.9	4857.2	3064.7	1225.6	447.7
80°	240.0	256.1	336.6	574.9	1312.5	2220.8	2209.6	2428.6	1359.2	600.7	149.8
82.5°	107.9	119.2	190.0	301.2	641.0	842.3	908.3	993.7	583.0	383.3	66.0
85°	32.2	38.7	93.4	151.4	231.9	243.2	272.2	351.1	330.1	272.2	33.8
87.5°	4.8	4.8	38.7	41.9	33.8	43.5	45.1	49.9	106.3	99.8	17.7
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°	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5
2.5°	1964.8	1953.5	1913.2	1879.4	1850.4	1832.7	1811.8	1798.9	1792.4	1787.6	1789.2
5°	1972.8	1945.4	1876.2	1821.4	1779.6	1734.5	1703.9	1686.2	1678.1	1665.2	1665.2
7.5°	2017.9	1974.4	1877.8	1794.1	1721.6	1660.4	1602.4	1581.5	1567.0	1563.8	1560.5
10°	2082.3	2027.6	1895.5	1779.6	1676.5	1592.8	1510.6	1438.1	1381.8	1348.0	1343.1
12.5°	2162.9	2083.9	1922.9	1769.9	1637.8	1489.7	1272.3	1125.7	1027.5	996.9	1001.7
15°	2236.9	2151.6	1950.3	1761.8	1567.0	1235.2	988.8	821.3	771.4	766.6	768.2
17.5°	2325.5	2224.1	1982.5	1750.6	1372.1	943.7	734.4	689.3	698.9	715.0	713.4
20°	2417.3	2301.4	2021.1	1682.9	1095.1	710.2	649.0	653.8	668.3	682.8	686.1
22.5°	2515.5	2389.9	2066.2	1520.3	835.8	618.4	615.2	621.6	636.1	652.2	655.5
25°	2650.8	2501.1	2100.0	1307.7	632.9	571.7	578.2	589.4	602.3	620.0	623.3
27.5°	2824.8	2650.8	2117.8	1030.7	547.6	529.8	531.5	547.6	563.7	579.8	579.8
30°	3050.2	2829.6	2082.3	779.5	505.7	489.6	483.1	492.8	513.7	529.8	531.5
32.5°	3251.5	2998.7	1988.9	595.9	475.1	452.5	436.4	438.0	446.1	455.8	457.4
35°	3452.8	3163.0	1829.5	500.9	442.9	417.1	393.0	380.1	373.6	368.8	373.6
37.5°	3710.5	3367.5	1616.9	455.8	415.5	383.3	349.5	322.1	299.5	285.1	288.3
40°	4042.3	3650.9	1365.7	426.8	389.7	351.1	306.0	270.6	231.9	219.0	212.6
42.5°	4589.8	4080.9	1101.6	402.6	364.0	317.3	260.9	212.6	177.2	164.3	167.5
45°	5454.6	4623.6	848.7	376.8	338.2	280.2	219.0	167.5	138.5	132.1	135.3
47.5°	6601.3	5325.8	653.8	347.9	306.0	240.0	172.3	132.1	114.3	112.7	111.1
50°	7680.3	5979.7	545.9	315.7	267.3	199.7	141.7	111.1	99.8	98.2	98.2
52.5°	8656.3	6448.3	444.5	278.6	225.5	164.3	119.2	98.2	88.6	83.7	83.7
55°	9524.3	6754.3	360.7	233.5	177.2	130.4	103.1	88.6	77.3	70.9	69.3
57.5°	10179.8	6791.3	270.6	186.8	132.1	101.5	88.6	77.3	64.4	56.4	53.1
60°	10460.0	6470.9	199.7	141.7	98.2	80.5	70.9	62.8	48.3	40.3	38.7
62.5°	10178.1	5847.6	148.2	107.9	75.7	59.6	49.9	46.7	33.8	24.2	22.5
65°	9168.4	4947.4	117.6	82.1	56.4	43.5	32.2	30.6	20.9	11.3	9.7
67.5°	7345.3	3874.8	93.4	61.2	40.3	29.0	20.9	19.3	11.3	3.2	3.2
70°	4776.6	2476.9	75.7	45.1	25.8	19.3	12.9	9.7	6.4	1.6	0.0
72.5°	2362.6	1157.9	61.2	35.4	17.7	9.7	4.8	3.2	4.8	0.0	0.0
75°	916.4	412.3	45.1	24.2	9.7	4.8	3.2	0.0	1.6	0.0	0.0
77.5°	304.4	136.9	27.4	12.9	6.4	3.2	0.0	0.0	0.0	0.0	0.0
80°	112.7	53.1	14.5	8.1	3.2	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	45.1	20.9	9.7	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.5	12.9	6.4	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.1	9.7	6.4	4.8	3.2	1.6	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)