

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: P458347

Luminaire Tested: **GALN-SA9D-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52833 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 552
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

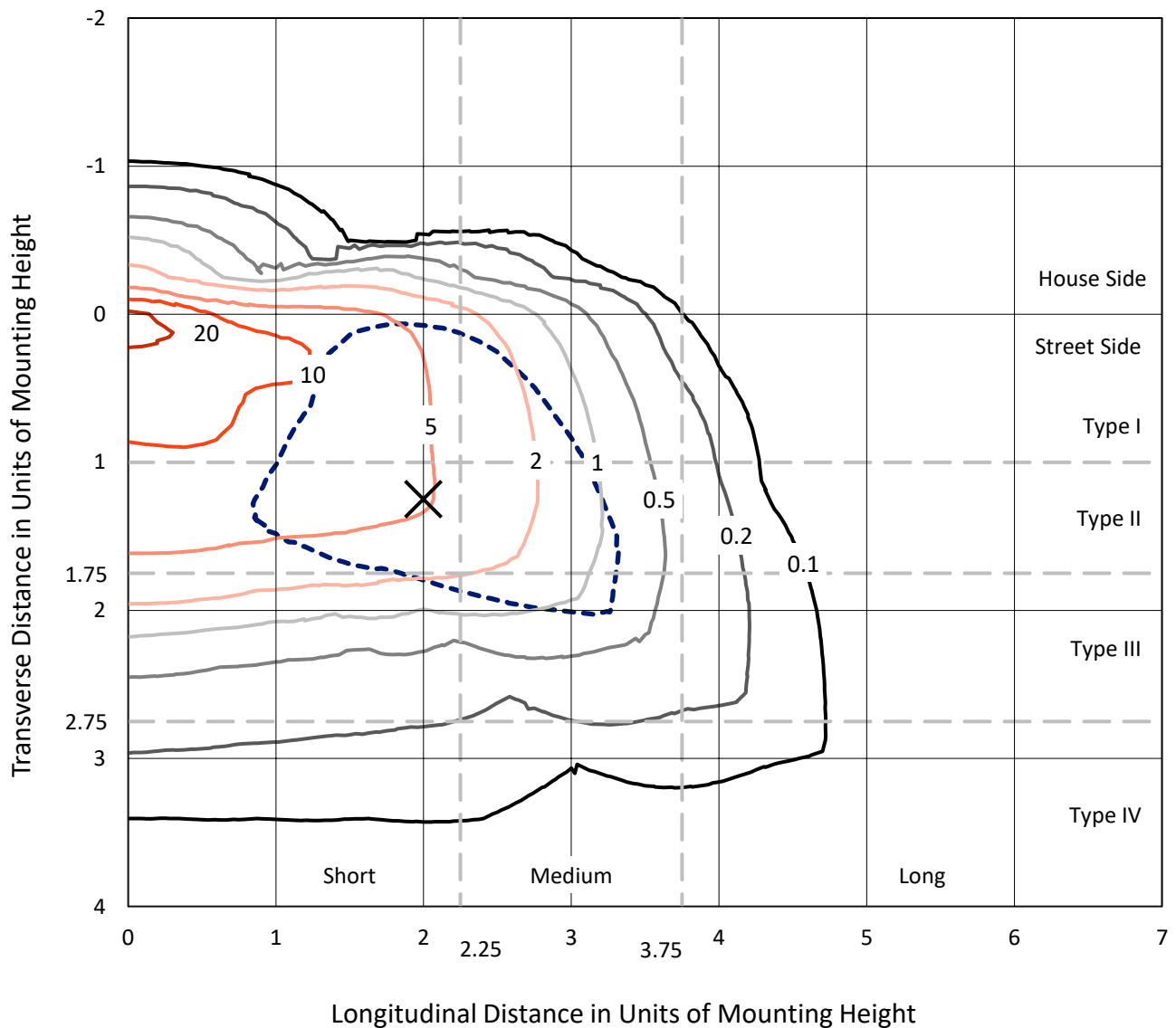




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Iso-Footcandle Lines of Horizontal Illumination

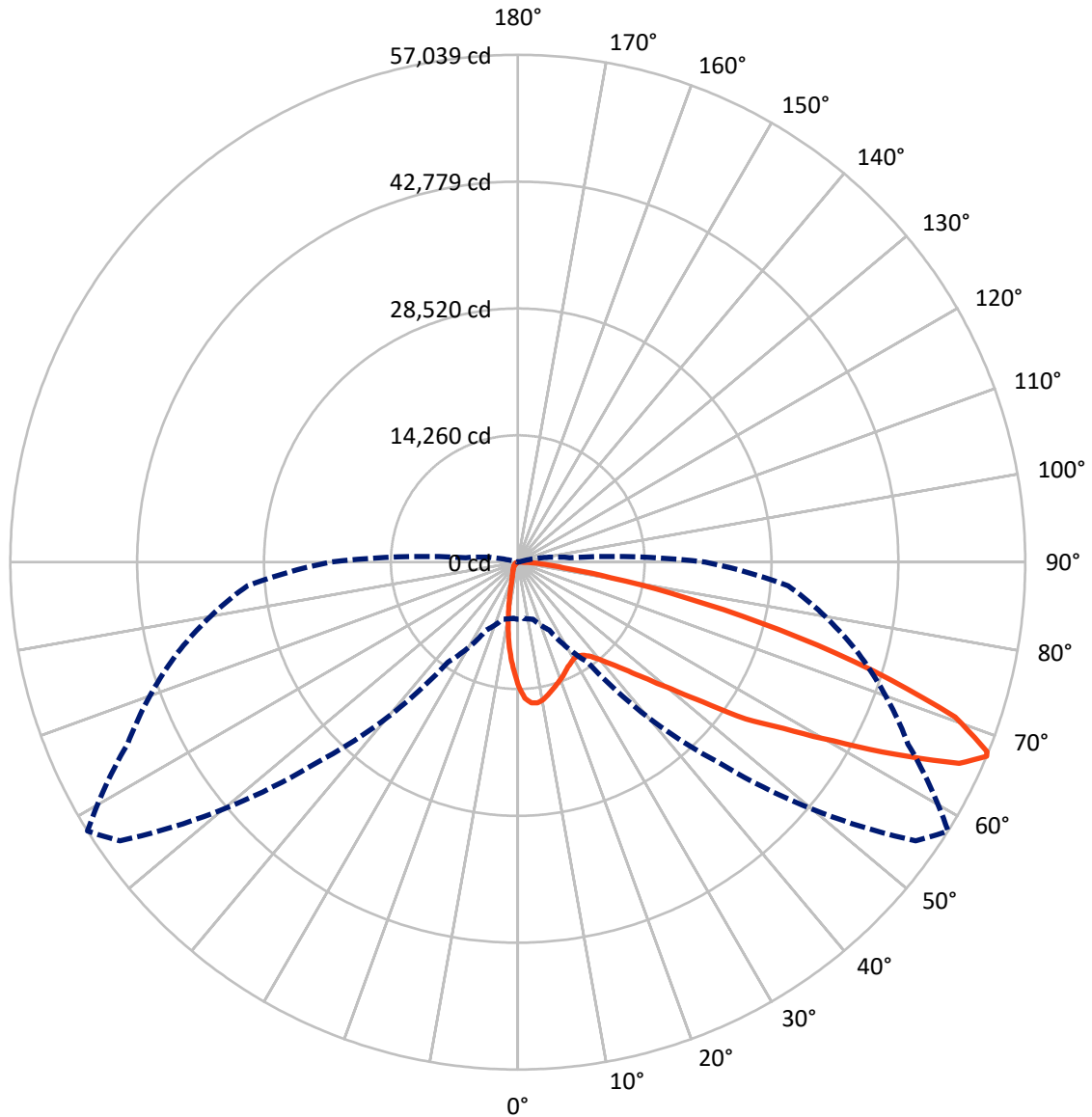
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3812.7	0.0	3812.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	49020.3	0.0	49020.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	52833.0	0.0	52833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1136.5	2.2
10°-20°	2454.6	4.6
20°-30°	3326.2	6.3
30°-40°	4613.2	8.7
40°-50°	7357.5	13.9
50°-60°	12718.1	24.1
60°-70°	14528.0	27.5
70°-80°	6056.8	11.5
80°-90°	642.2	1.2
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°	52833.0	100.0
0°-180°	52833.0	100.0

Coefficient of Utilization



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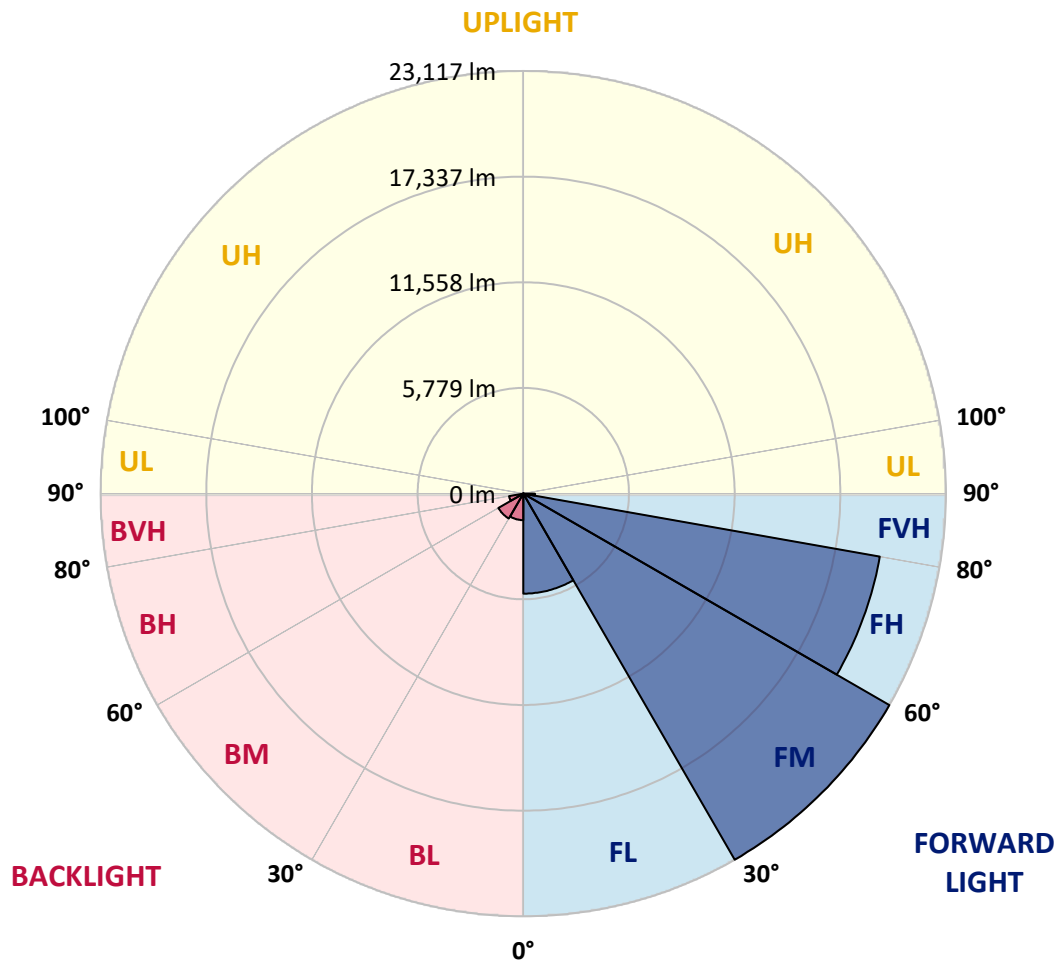
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5469.5	10.4			
FM (30°-60°)	23116.6	43.8			
FH (60°-80°)	19796.6	37.5			G5
FVH (80°-90°)	637.5	1.2			G4/750
BL (0°-30°)	1447.8	2.7	B3/2500		
BM (30°-60°)	1572.1	3.0	B2/2500		
BH (60°-80°)	788.2	1.5	B2/1000		G2/1000
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14005.5	14005.5	14005.5	14005.5	14005.5	14005.5	14005.5	14005.5	14005.5	14005.5	14005.5
2.5°	16254.5	16279.2	16187.4	16113.3	15922.6	15717.8	15446.0	15301.2	15054.1	14626.9	14153.8
5°	16635.8	16667.5	16653.4	16635.8	16561.6	16363.9	16017.9	15890.8	15527.2	14831.7	13977.3
7.5°	15788.5	15905.0	15919.1	16056.8	16187.4	16205.1	16074.4	15979.1	15643.7	14828.2	13663.1
10°	14665.7	14743.4	14856.4	15015.3	15329.5	15590.7	15717.8	15703.7	15509.5	14718.7	13295.9
12.5°	13532.5	13574.8	13747.8	14019.7	14404.5	14849.3	15188.3	15255.3	15258.9	14588.1	12988.8
15°	12558.0	12540.4	12674.5	12988.8	13528.9	14086.7	14694.0	14799.9	14969.4	14461.0	12702.8
17.5°	11724.8	11816.6	11837.8	12183.8	12681.6	13405.4	14178.5	14365.7	14704.6	14351.5	12466.2
20°	11209.4	11258.8	11304.7	11498.9	11947.3	12709.8	13694.9	13952.6	14457.4	14252.7	12201.5
22.5°	11057.6	11089.3	11050.5	11110.5	11428.3	12106.1	13168.8	13511.3	14220.9	14160.9	11986.1
25°	11174.1	11205.8	11114.1	11043.4	11152.9	11615.4	12660.4	13077.0	14030.3	14143.2	11823.7
27.5°	11456.5	11516.5	11389.4	11262.3	11198.8	11350.6	12261.5	12745.2	13899.6	14228.0	11749.5
30°	11897.8	11933.1	11837.8	11682.5	11537.7	11385.9	12053.2	12515.7	13864.3	14425.7	11742.5
32.5°	12378.0	12452.1	12399.2	12296.8	12109.7	11749.5	12113.2	12522.7	13949.1	14711.6	11830.7
35°	12971.1	13055.8	13105.3	13084.1	12844.0	12395.6	12494.5	12840.5	14175.0	15237.7	12070.8
37.5°	13553.6	13627.8	13906.7	14002.0	13790.2	13366.5	13235.9	13465.4	14672.8	15926.1	12505.1
40°	14220.9	14319.8	14711.6	15075.3	14972.9	14528.1	14288.0	14478.6	15435.4	16964.1	13327.7
42.5°	14859.9	15036.5	15633.1	16275.7	16371.0	15873.2	15714.3	15777.9	16565.2	18457.5	14475.1
45°	15767.3	15933.2	16702.9	17574.9	18023.3	17634.9	17472.5	17461.9	18115.1	20558.2	16335.7
47.5°	17077.1	17225.4	18132.7	18994.2	19792.1	19845.0	19537.9	19643.8	20063.9	23015.4	18616.4
50°	18683.5	19033.0	19629.6	20526.4	21592.6	22454.1	22549.4	22408.2	22768.3	25861.0	21356.1
52.5°	21017.1	21151.3	21698.5	22436.4	23686.2	25147.8	26281.1	26087.0	25974.0	28572.4	24124.0
55°	22757.7	22937.7	23788.6	24801.9	26634.2	28561.8	31019.1	31086.2	29659.8	31178.0	26831.9
57.5°	22231.6	22507.0	23795.7	25832.8	29861.1	33384.5	35213.3	35259.2	33070.3	33709.3	29889.3
60°	19530.8	19661.4	21507.9	24226.4	30136.5	38609.7	41162.2	40791.5	36540.8	36540.8	32590.2
62.5°	13850.2	14055.0	15551.9	19552.0	27216.7	40424.4	48286.8	47520.7	41321.1	39248.7	34200.1
65°	8851.0	8653.3	9645.4	12342.7	20275.7	37744.7	54489.9	54535.8	45819.0	40332.6	33321.0
67°	6411.4	6333.7	6619.7	8437.9	13747.8	31728.7	54620.6	57039.0	48403.3	39647.7	30510.7
67.5°	5864.2	5924.2	6132.5	7611.8	12491.0	28872.5	54027.4	56890.7	48985.9	39234.6	29493.9
70°	4444.9	4342.5	4568.5	5384.0	7488.2	18213.9	46475.7	52177.4	48262.1	35135.7	23566.2
72.5°	3269.3	3258.7	3572.9	4402.5	5765.3	9701.8	34888.5	41836.6	39428.8	26754.2	14838.7
75°	2206.6	2305.4	2806.8	3678.8	5225.2	6291.4	23785.1	30351.8	27372.1	15191.8	6065.4
77.5°	1256.9	1263.9	1807.6	2955.0	4692.1	5062.8	14093.8	19336.6	14489.2	5052.2	1800.6
80°	543.7	596.7	896.8	2146.6	3890.6	4483.8	8081.3	10626.8	5860.7	1069.7	582.5
82.5°	201.2	236.5	395.4	1320.4	2838.5	3692.9	4882.7	5073.3	1987.7	377.8	363.6
85°	0.0	7.1	144.8	617.8	1479.3	1648.7	3262.2	3008.0	879.1	180.1	236.5
87.5°	0.0	0.0	0.0	63.5	194.2	614.3	1013.3	1129.8	211.8	63.5	56.5
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°	14005.5	14005.5	14005.5	14005.5	14005.5	14005.5	14005.5	14005.5	14005.5	14005.5	14005.5
2.5°	13899.6	13670.1	13094.7	12519.2	12092.0	11735.4	11198.8	10905.8	10750.4	10520.9	10535.0
5°	13550.1	13084.1	12070.8	11022.3	10174.9	9348.8	8360.3	7961.3	7625.9	7435.3	7308.2
7.5°	13031.1	12342.7	10842.2	9444.1	8141.4	6697.4	5613.5	4889.8	4402.5	4222.5	4049.5
10°	12462.7	11548.3	9595.9	7657.7	5850.1	4360.2	3442.2	2778.5	2542.0	2323.1	2344.3
12.5°	11936.7	10824.6	8452.0	6044.2	4098.9	2771.5	2160.7	1888.8	1811.2	1786.4	1786.4
15°	11505.9	10132.6	7223.4	4543.8	2810.3	1991.2	1730.0	1655.8	1627.6	1620.5	1620.5
17.5°	11047.0	9475.9	6114.8	3357.5	2044.2	1666.4	1578.1	1528.7	1518.1	1511.1	1511.1
20°	10637.4	8815.7	5062.8	2499.6	1652.3	1500.5	1444.0	1412.2	1401.6	1394.6	1398.1
22.5°	10249.1	8229.6	4074.2	1888.8	1454.6	1366.3	1309.8	1278.0	1256.9	1239.2	1242.7
25°	9903.1	7664.7	3276.3	1546.4	1309.8	1232.1	1175.7	1129.8	1083.9	1062.7	1059.2
27.5°	9659.5	7170.5	2552.6	1323.9	1179.2	1094.5	1023.8	967.4	907.3	875.6	868.5
30°	9458.2	6669.1	2019.5	1168.6	1048.6	967.4	879.1	797.9	734.3	702.6	688.4
32.5°	9327.6	6192.5	1592.3	1041.5	939.1	840.3	741.4	660.2	589.6	557.8	550.8
35°	9306.4	5793.6	1302.8	935.6	840.3	734.3	632.0	543.7	483.7	451.9	444.8
37.5°	9458.2	5486.4	1090.9	850.9	759.1	642.6	529.6	448.4	395.4	370.7	367.2
40°	9864.3	5292.2	946.2	780.2	684.9	557.8	451.9	381.3	328.3	303.6	303.6
42.5°	10637.4	5299.3	850.9	713.2	610.8	476.6	384.8	317.7	271.8	250.7	243.6
45°	11844.9	5539.4	769.7	646.1	540.2	413.1	328.3	261.3	215.4	197.7	197.7
47.5°	13461.8	6016.0	699.0	579.0	476.6	353.1	278.9	211.8	173.0	155.3	155.3
50°	15576.6	6782.1	639.0	522.5	423.7	303.6	226.0	173.0	134.2	120.0	116.5
52.5°	17786.7	7728.3	568.4	473.1	363.6	257.7	183.6	134.2	102.4	91.8	88.3
55°	20226.3	8653.3	501.3	423.7	296.6	215.4	144.8	105.9	74.1	63.5	63.5
57.5°	22687.1	9560.6	420.1	353.1	233.0	158.9	113.0	77.7	49.4	38.8	38.8
60°	24770.1	9853.7	356.6	286.0	176.5	113.0	81.2	49.4	28.2	17.7	17.7
62.5°	25056.0	8865.1	300.1	218.9	127.1	77.7	42.4	28.2	10.6	7.1	7.1
65°	23502.6	7202.2	250.7	165.9	84.7	38.8	17.7	10.6	3.5	0.0	0.0
67°	21059.5	5839.5	204.8	123.6	60.0	24.7	10.6	3.5	0.0	0.0	0.0
67.5°	20434.6	5567.6	197.7	116.5	53.0	21.2	7.1	3.5	0.0	0.0	0.0
70°	16035.6	4169.5	141.2	70.6	31.8	14.1	0.0	0.0	0.0	0.0	0.0
72.5°	9966.6	2358.4	102.4	42.4	21.2	7.1	0.0	0.0	0.0	0.0	0.0
75°	3767.1	826.1	70.6	28.2	14.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1172.1	314.2	42.4	21.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	395.4	120.0	28.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	243.6	49.4	17.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	151.8	21.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.2	7.1	3.5	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)