

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: P647442

Luminaire Tested: **GALN-SA5D-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24951.8 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

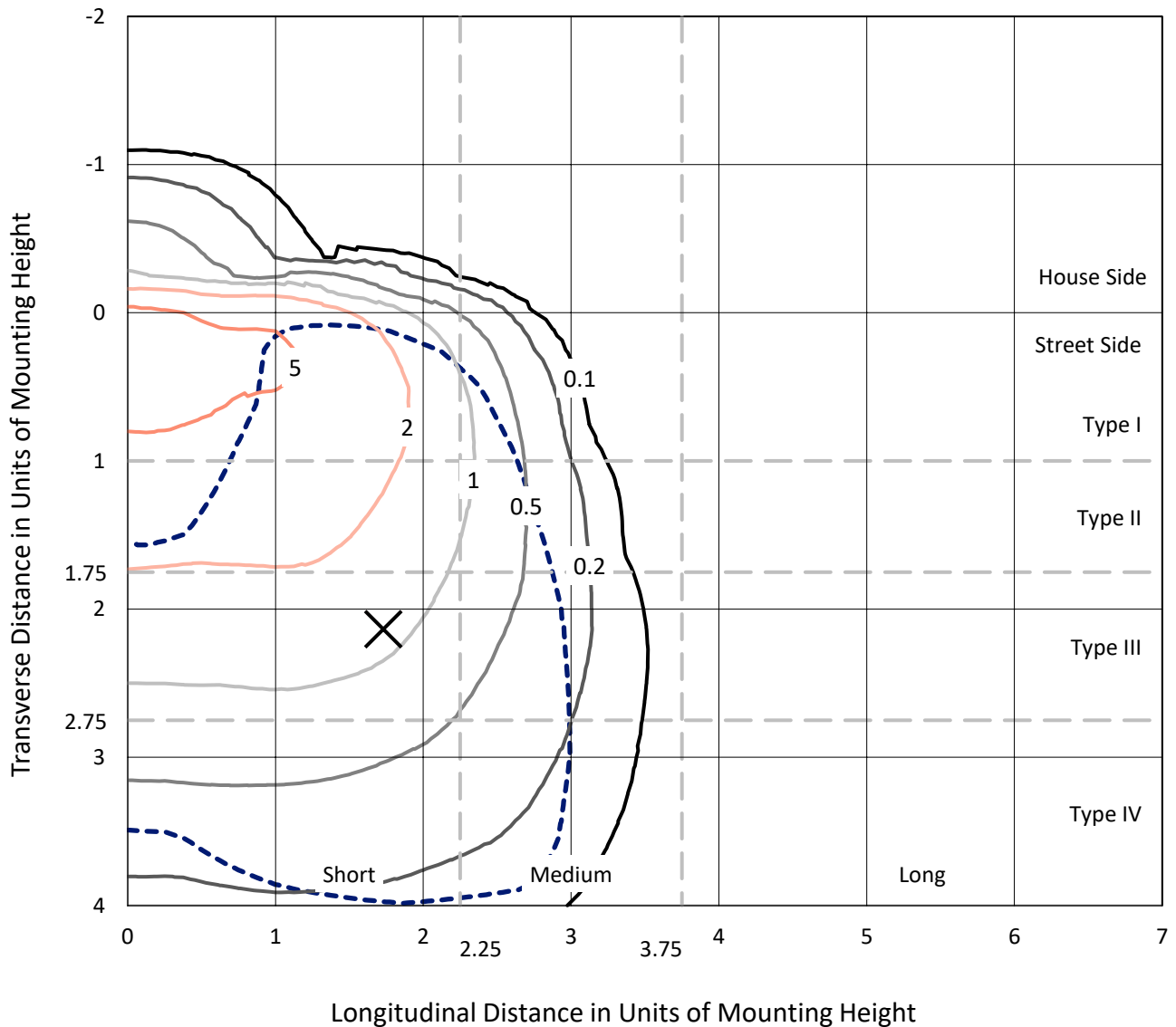
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

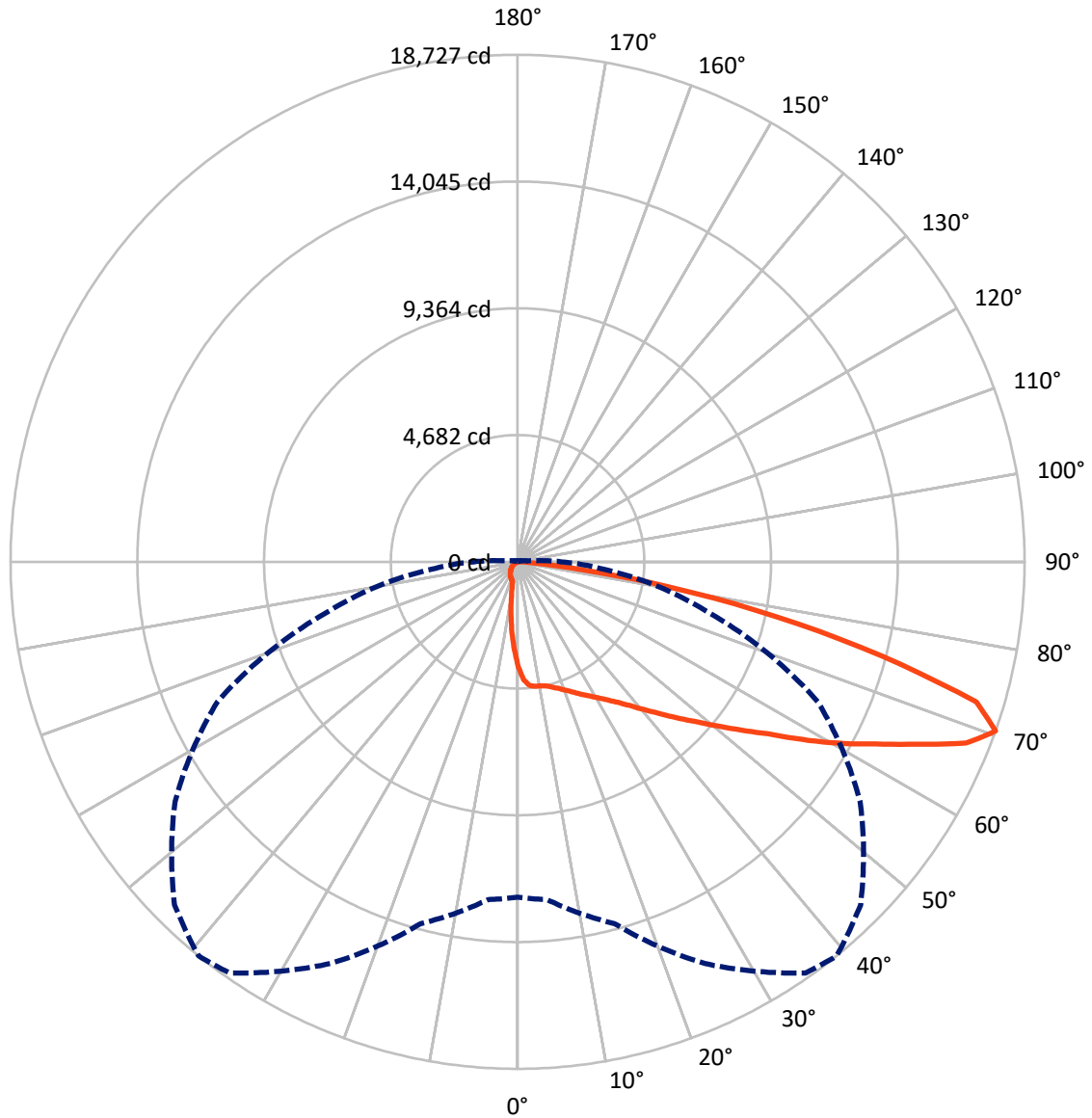
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1627.0	0.0	1627.0
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	23324.9	0.0	23324.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	24951.8	0.0	24951.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.1	1.3
10°-20°	863.0	3.5
20°-30°	1445.7	5.8
30°-40°	2242.1	9.0
40°-50°	3553.1	14.2
50°-60°	5208.3	20.9
60°-70°	6675.8	26.8
70°-80°	4194.8	16.8
80°-90°	437.0	1.8
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°	24951.8	100.0
0°-180°	24951.8	100.0

Coefficient of Utilization

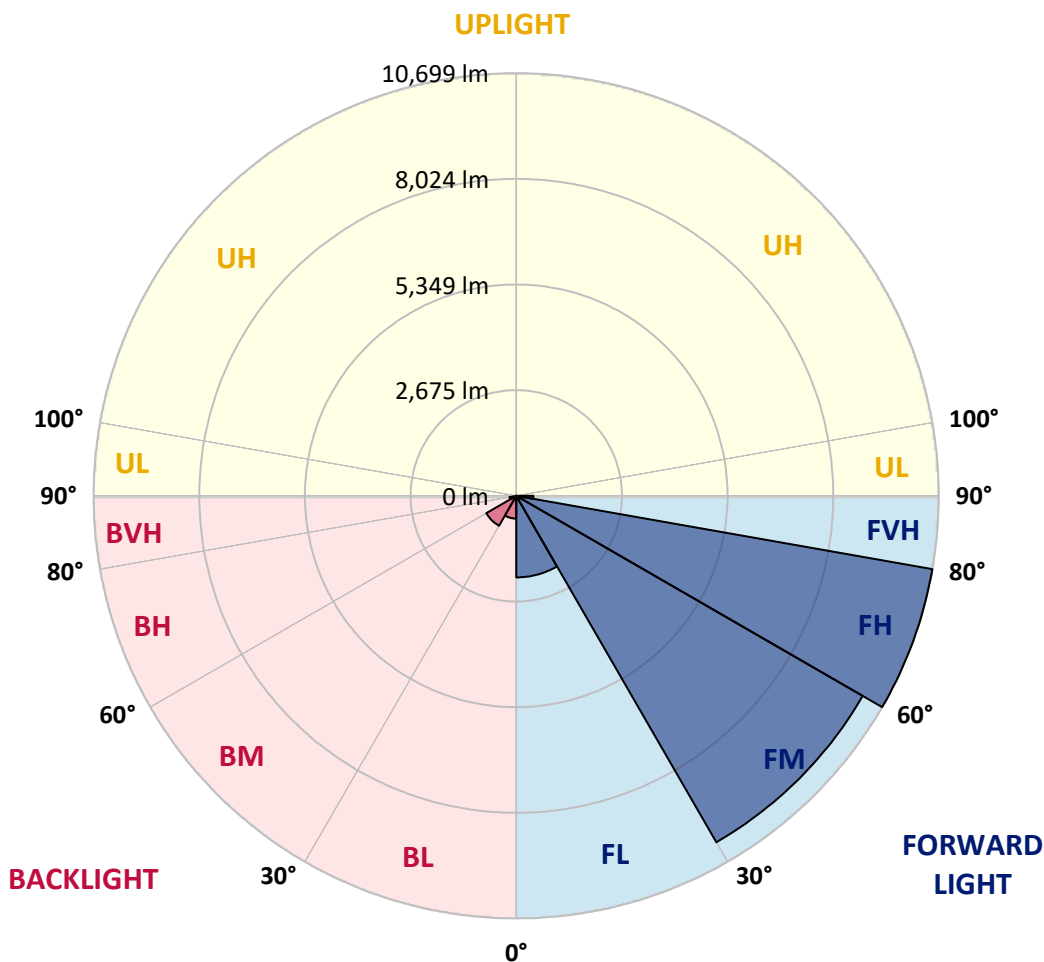


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2064.6	8.3			
FM (30°-60°)	10127.9	40.6			
FH (60°-80°)	10698.5	42.9			G4/12000
FVH (80°-90°)	433.8	1.7			G3/500
BL (0°-30°)	576.1	2.3	B2/1000		
BM (30°-60°)	875.6	3.5	B1/1000		
BH (60°-80°)	172.1	0.7	B1/500		G1/500
BVH (80°-90°)	3.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3893.3	3893.3	3893.3	3893.3	3893.3	3893.3	3893.3	3893.3	3893.3	3893.3	3893.3
2.5°	4498.6	4483.5	4463.4	4439.9	4372.9	4361.2	4320.9	4235.4	4133.1	4049.3	3933.6
5°	4711.6	4720.0	4704.9	4663.0	4614.3	4585.8	4535.5	4403.0	4270.6	4101.3	3911.8
7.5°	4760.2	4777.0	4758.5	4718.3	4671.4	4641.2	4600.9	4486.9	4332.7	4139.8	3879.9
10°	4755.2	4775.3	4763.5	4726.7	4688.1	4659.6	4616.0	4525.5	4401.4	4198.5	3890.0
12.5°	4746.8	4773.6	4771.9	4753.5	4721.6	4699.9	4673.0	4592.5	4476.9	4284.0	3945.3
15°	4723.3	4756.9	4787.0	4802.1	4803.8	4803.8	4770.3	4684.8	4574.1	4396.4	4017.4
17.5°	4733.4	4771.9	4847.4	4891.0	4921.2	4917.8	4882.6	4790.4	4668.0	4512.0	4092.9
20°	4795.4	4847.4	4953.0	5040.2	5070.4	5060.4	5013.4	4906.1	4766.9	4611.0	4166.7
22.5°	4948.0	4994.9	5127.4	5229.7	5251.5	5224.6	5157.6	5011.7	4886.0	4718.3	4255.5
25°	5176.0	5231.4	5353.8	5430.9	5430.9	5415.8	5321.9	5150.9	5020.1	4867.5	4371.2
27.5°	5452.7	5499.6	5620.4	5689.1	5648.9	5605.3	5511.4	5305.1	5179.4	5055.3	4510.4
30°	5732.7	5762.9	5890.4	5920.5	5878.6	5823.2	5722.6	5516.4	5405.8	5310.1	4711.6
32.5°	5997.6	6063.0	6168.6	6162.0	6105.0	6078.1	5985.9	5766.2	5704.2	5694.1	4993.3
35°	6262.6	6312.9	6406.7	6430.2	6380.0	6374.9	6307.8	6145.2	6146.9	6212.2	5432.6
37.5°	6490.6	6535.9	6646.5	6698.5	6708.6	6733.7	6706.9	6599.6	6752.1	6931.6	6014.4
40°	6681.7	6745.5	6886.3	6976.8	7080.8	7173.0	7178.1	7201.5	7508.3	7816.8	6774.0
42.5°	6831.0	6919.8	7124.4	7292.1	7530.2	7647.6	7741.4	7870.6	8386.9	8848.1	7669.3
45°	7025.5	7127.7	7382.6	7645.8	8018.1	8210.9	8341.7	8687.1	9419.8	10048.6	8588.2
47.5°	7347.4	7401.1	7661.0	8044.9	8534.5	8809.5	9064.3	9587.5	10528.1	11091.5	9352.8
50°	7761.6	7796.7	7992.9	8526.2	9159.9	9522.1	9986.5	10601.9	11678.4	11956.7	9785.3
52.5°	8219.3	8231.1	8378.6	9055.9	9860.8	10316.9	10836.6	11596.2	12615.6	12573.7	10072.0
55°	8750.8	8734.1	8859.8	9631.1	10690.8	11212.2	11817.5	12614.0	13428.8	13011.3	10236.4
57.5°	9359.4	9314.2	9436.6	10394.0	11753.8	12377.6	12992.9	13492.6	14059.3	13378.6	10315.2
60°	9996.6	9906.0	10051.9	11250.8	13006.3	13598.2	14109.6	14243.7	14723.3	13670.3	10179.4
62.5°	10504.6	10506.4	10778.0	12163.0	14294.1	14812.2	15083.8	15204.5	15295.0	13606.6	9465.1
65°	11297.8	11324.6	11758.9	13428.8	15784.7	16234.0	16420.1	16027.8	15320.2	12815.2	8392.0
67.5°	12116.0	12201.5	12996.2	15172.7	17506.6	17868.8	17629.0	16187.0	14636.1	11009.4	6363.1
70°	12382.6	12523.5	13832.9	16373.2	18539.5	18727.3	17915.7	15444.3	12235.0	7360.8	3202.5
72.5°	11346.4	11574.4	13351.7	15935.5	17880.6	17717.9	16029.4	12952.7	7778.3	2795.1	977.5
75°	8001.3	8101.9	11096.5	13219.2	14381.2	13920.2	12193.1	8350.1	3199.2	784.7	335.4
77.5°	4131.4	4082.8	6599.6	8770.9	10256.5	9778.7	7984.6	4322.6	1212.2	327.0	207.9
80°	2136.2	2171.3	2855.4	4595.9	6260.9	5761.2	4257.2	2003.7	645.5	181.1	159.3
82.5°	1197.2	1123.4	1641.5	2007.1	2927.6	2295.4	1633.1	1418.5	281.7	109.0	150.9
85°	218.0	228.0	900.4	1084.8	1016.1	645.5	526.5	947.4	82.1	60.4	105.6
87.5°	3.4	3.4	174.4	311.9	197.9	90.5	166.0	135.9	16.8	23.5	18.5
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°	3893.3	3893.3	3893.3	3893.3	3893.3	3893.3	3893.3	3893.3	3893.3	3893.3	3893.3
2.5°	3874.9	3811.2	3692.2	3574.8	3425.5	3303.2	3220.9	3135.4	3048.3	3055.0	3075.1
5°	3807.8	3697.2	3462.4	3214.3	2976.2	2761.6	2550.3	2360.8	2283.7	2213.3	2216.6
7.5°	3740.8	3584.8	3241.1	2852.1	2491.6	2126.1	1861.2	1643.2	1527.5	1440.3	1415.1
10°	3710.6	3504.3	3038.2	2503.3	1992.0	1592.9	1252.5	1074.7	937.3	893.7	905.5
12.5°	3724.0	3464.1	2855.4	2188.1	1579.5	1110.0	871.9	781.4	751.1	746.1	742.8
15°	3749.2	3435.6	2676.1	1839.3	1160.3	825.0	732.7	716.0	712.6	709.2	711.0
17.5°	3782.7	3410.4	2484.9	1512.4	890.3	721.0	694.1	685.8	684.1	684.1	684.1
20°	3816.2	3381.9	2272.0	1220.6	742.8	680.7	664.0	659.0	657.3	657.3	655.6
22.5°	3854.8	3356.8	2055.7	959.1	684.1	652.2	637.1	633.8	632.1	630.5	630.5
25°	3910.1	3324.9	1826.0	784.7	647.2	625.4	610.3	607.0	605.3	598.6	600.2
27.5°	3983.9	3301.4	1589.6	677.4	613.7	591.9	581.8	576.8	573.5	568.4	570.1
30°	4084.5	3281.3	1338.0	618.7	575.1	556.6	546.6	543.2	539.9	534.9	534.9
32.5°	4258.9	3289.7	1073.1	571.7	539.9	518.1	508.0	504.7	501.4	496.3	496.3
35°	4520.4	3338.3	858.5	531.5	498.0	476.2	466.1	466.1	461.1	454.4	452.7
37.5°	4948.0	3462.4	689.1	493.0	457.7	437.6	425.9	422.5	417.5	407.5	405.8
40°	5452.7	3655.3	580.1	454.4	420.9	400.7	390.6	380.6	367.2	357.1	355.5
42.5°	6086.5	3853.1	503.0	415.9	385.6	367.2	355.5	338.7	318.6	305.1	303.5
45°	6747.1	4034.2	451.0	380.6	352.1	337.0	323.6	296.8	271.6	254.9	253.2
47.5°	7240.1	4067.8	409.1	347.1	323.6	308.5	290.1	256.5	223.0	207.9	202.9
50°	7473.1	3905.1	365.5	313.5	295.1	278.4	254.9	216.3	179.4	161.0	157.6
52.5°	7555.3	3623.4	330.3	283.4	266.6	246.5	218.0	174.4	140.9	122.4	120.7
55°	7521.7	3267.9	298.5	254.9	233.1	209.6	181.1	139.1	104.0	88.9	85.5
57.5°	7345.7	2815.2	266.6	226.4	199.5	176.0	144.2	104.0	70.4	57.0	55.4
60°	6871.2	2198.2	234.7	194.5	169.4	144.2	114.0	73.8	43.6	31.9	31.9
62.5°	6069.7	1631.5	204.6	162.6	142.5	115.7	80.5	47.0	23.5	16.8	15.1
65°	5072.1	1203.9	171.0	137.5	119.0	90.5	57.0	28.5	11.7	5.0	3.4
67.5°	3539.6	742.8	142.5	112.4	97.2	65.4	35.2	11.7	5.0	0.0	0.0
70°	1608.0	353.8	109.0	85.5	73.8	47.0	18.5	6.7	3.4	0.0	0.0
72.5°	499.6	186.1	77.1	62.0	50.3	30.1	10.0	5.0	3.4	0.0	0.0
75°	231.4	119.0	48.6	33.5	28.5	15.1	6.7	3.4	1.6	0.0	0.0
77.5°	172.7	92.2	28.5	18.5	15.1	10.0	5.0	3.4	1.6	0.0	0.0
80°	150.9	47.0	16.8	11.7	8.4	6.7	3.4	1.6	0.0	0.0	0.0
82.5°	135.9	23.5	10.0	6.7	5.0	3.4	1.6	1.6	0.0	0.0	0.0
85°	73.8	13.4	6.7	5.0	3.4	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	13.4	6.7	5.0	3.4	3.4	1.6	1.6	1.6	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)