

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: P452803

Luminaire Tested: **GALN-SA3D-740-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452803
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-SA3D-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 18921 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

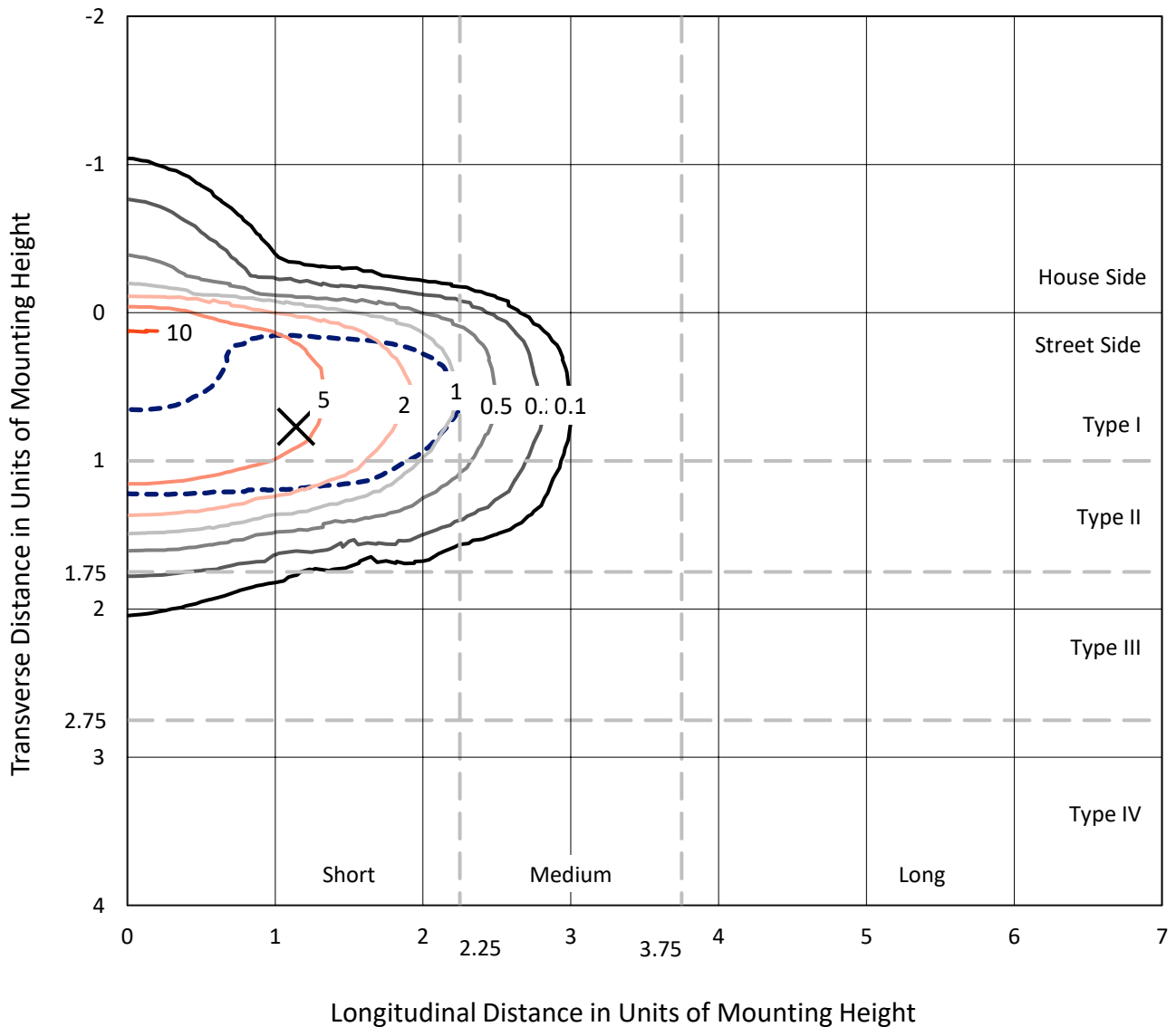
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452803
 CATALOG NUMBER: GALN-SA3D-740-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

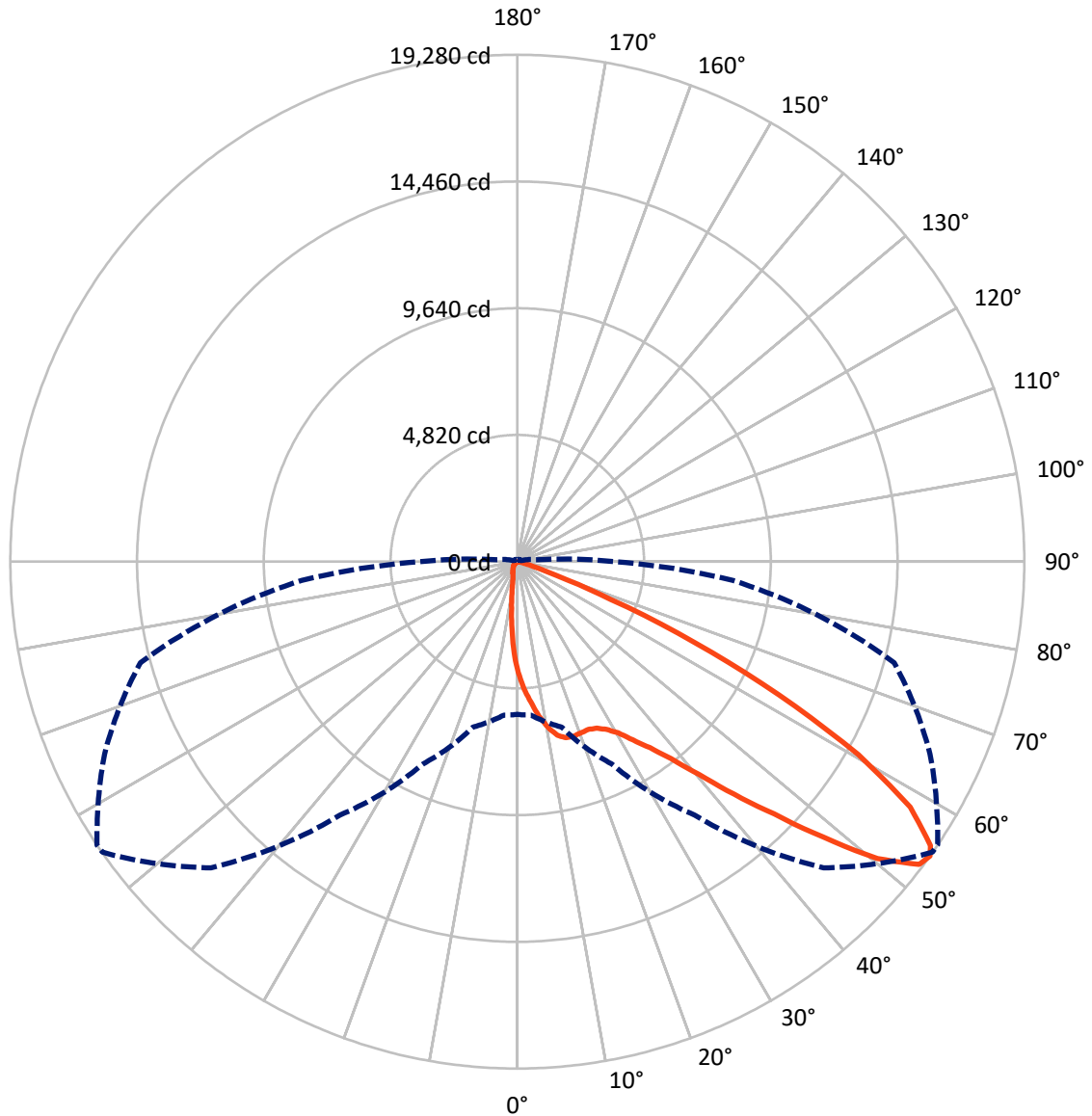
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

REPORT NUMBER: P452803
CATALOG NUMBER: GALN-SA3D-740-U-AFL-HSS

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	894.7	0.0	894.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	18026.3	0.0	18026.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	18921.0	0.0	18921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	2.0
10°-20°	1004.2	5.3
20°-30°	1739.2	9.2
30°-40°	3002.1	15.9
40°-50°	5109.7	27.0
50°-60°	5056.6	26.7
60°-70°	2308.0	12.2
70°-80°	296.4	1.6
80°-90°	33.4	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°	18921.0	100.0
0°-180°	18921.0	100.0

Coefficient of Utilization

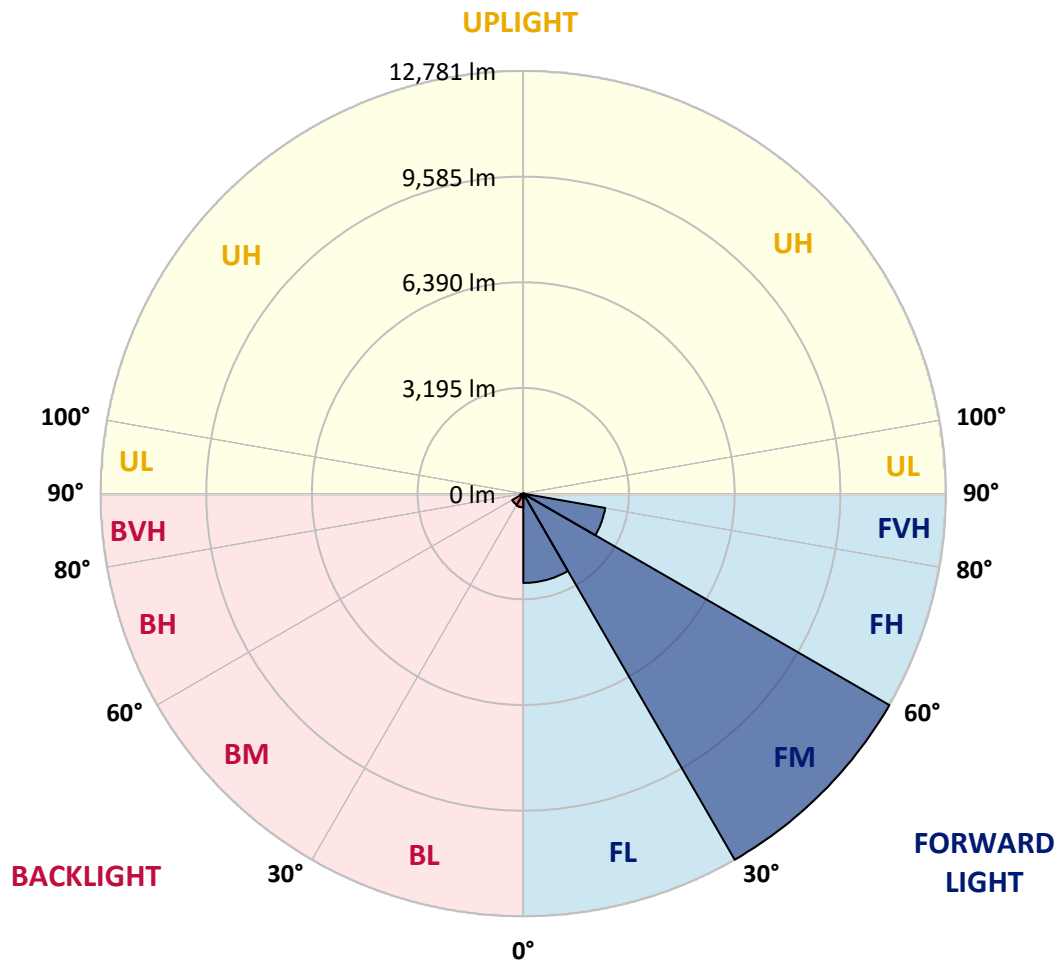


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2701.0	14.3			
FM (30°-60°)	12780.6	67.5			
FH (60°-80°)	2514.8	13.3			G2/5000
FVH (80°-90°)	29.8	0.2			G1/100
BL (0°-30°)	413.8	2.2	B1/500		
BM (30°-60°)	387.8	2.0	B1/1000		
BH (60°-80°)	89.6	0.5	B0/110		G0/110
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CATALOG NUMBER: GALN-SA3D-740-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7
2.5°	5342.4	5305.4	5254.3	5214.7	5121.5	4987.5	4845.8	4845.8	4709.2	4519.0	4325.0
5°	6161.9	6137.7	6087.9	5985.8	5881.1	5693.4	5408.8	5359.0	5115.2	4770.5	4408.0
7.5°	6495.1	6506.6	6509.2	6482.4	6432.6	6247.5	5965.4	5930.9	5541.5	5079.4	4516.5
10°	6176.0	6232.2	6287.0	6398.1	6555.1	6599.8	6440.2	6404.5	6021.5	5392.2	4633.9
12.5°	5701.1	5731.7	5762.4	5937.3	6252.6	6613.8	6781.1	6779.8	6455.5	5703.7	4783.3
15°	5480.3	5507.1	5509.6	5587.5	5860.7	6386.6	6926.6	6945.7	6879.4	6087.9	4944.1
17.5°	5526.2	5547.9	5530.0	5549.2	5692.2	6136.4	6910.0	6973.8	7222.8	6456.8	5089.6
20°	5826.2	5868.3	5799.4	5745.8	5789.2	6070.0	6853.8	6943.2	7465.3	6816.8	5222.4
22.5°	6364.9	6387.9	6301.1	6154.3	6077.7	6209.2	6838.5	6926.6	7672.1	7111.7	5299.0
25°	6963.6	6956.0	6860.2	6695.5	6534.7	6490.0	6939.4	7018.5	7843.2	7377.2	5322.0
27.5°	7562.3	7585.3	7424.5	7220.2	7027.4	6911.3	7165.3	7224.0	8035.9	7679.8	5350.1
30°	8258.0	8221.0	8062.7	7829.1	7608.3	7446.2	7529.1	7545.7	8301.5	8080.6	5424.1
32.5°	9163.1	9061.0	8883.6	8475.1	8316.8	8042.3	8062.7	8083.2	8624.4	8477.6	5513.4
35°	10391.2	10386.1	10038.8	9488.6	9103.1	8762.3	8672.9	8689.5	9113.3	9067.4	5711.3
37.5°	11869.4	11889.9	11494.1	10940.1	10230.3	9689.1	9505.2	9507.8	9856.3	9881.8	6012.6
40°	13073.2	13126.8	12890.7	12516.6	11815.8	10969.5	10660.5	10632.4	10900.5	10868.6	6442.8
42.5°	13591.5	13641.3	13729.4	13859.6	13474.1	12775.8	12046.9	12085.2	12166.9	11943.5	6925.3
45°	13337.5	13416.6	13762.6	14566.8	14929.3	14694.4	13825.1	13691.1	13345.1	13111.5	7410.4
47.5°	12279.2	12472.0	13050.2	14389.4	15658.2	16452.3	15831.9	15654.4	14524.7	13964.3	7719.3
50°	10539.3	10550.7	11356.3	13068.1	15280.4	17561.6	17880.7	17748.0	15623.8	14443.0	7875.1
52.5°	7640.2	7891.7	8629.5	10612.0	13643.8	17393.1	19186.7	19131.8	16757.4	14688.1	8099.8
54°	5808.3	5856.8	6513.0	8480.2	11763.5	16467.6	19267.1	19279.8	17320.3	14836.1	8232.5
55°	4761.6	4645.4	5334.7	7224.0	10480.5	15649.3	19004.1	19065.4	17573.1	14912.7	8330.8
57.5°	2257.0	2258.2	2785.4	3810.5	6564.1	12151.5	17396.9	17613.9	17601.2	15044.2	8633.4
60°	1142.5	1150.2	1266.3	1759.1	3242.5	8078.1	14384.2	14901.3	16246.7	15063.4	8732.9
62.5°	799.1	790.2	771.0	846.4	1364.6	4105.4	10709.0	11158.4	13803.4	14334.5	8416.3
65°	684.2	665.1	611.5	600.0	689.3	1635.3	6670.0	7402.8	10539.3	12412.0	7515.1
67.5°	584.7	577.0	528.5	499.1	487.6	712.3	3441.6	3827.1	7203.6	8921.9	5692.2
70°	496.6	492.8	463.4	426.4	394.5	426.4	1276.6	1581.7	4014.8	4803.7	2685.9
72.5°	403.4	407.2	412.3	365.1	331.9	302.5	545.1	634.4	1679.9	1717.0	939.5
75°	353.6	349.8	349.8	317.9	277.0	224.7	300.0	323.0	514.5	477.4	218.3
77.5°	248.9	240.0	280.8	261.7	231.1	159.6	171.1	181.3	213.2	182.5	102.1
80°	172.3	172.3	180.0	234.9	208.1	116.2	104.7	112.3	126.4	108.5	58.7
82.5°	97.0	99.6	117.4	125.1	121.3	77.9	68.9	70.2	84.3	74.0	37.0
85°	11.5	19.1	67.7	66.4	49.8	34.5	38.3	39.6	52.3	46.0	21.7
87.5°	1.3	2.6	14.0	17.9	12.8	14.0	14.0	14.0	17.9	20.4	15.3
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°	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7
2.5°	4220.3	4123.3	3892.2	3624.1	3453.1	3174.8	2939.9	2770.1	2728.0	2646.3	2670.6
5°	4215.2	4013.5	3542.4	3044.6	2513.5	2117.8	1822.9	1590.6	1488.5	1420.8	1373.6
7.5°	4217.7	3902.4	3146.7	2354.0	1719.5	1331.4	1058.3	916.6	822.1	782.5	787.6
10°	4225.4	3777.3	2687.2	1743.8	1160.4	860.4	693.2	625.5	593.6	588.5	587.2
12.5°	4243.3	3640.7	2248.0	1294.4	811.9	625.5	561.7	538.7	528.5	528.5	524.7
15°	4262.4	3490.1	1882.9	962.5	625.5	537.4	508.1	496.6	490.2	490.2	488.9
17.5°	4262.4	3316.5	1542.1	746.8	538.7	494.0	471.0	455.7	450.6	450.6	449.3
20°	4235.6	3114.8	1239.5	601.3	488.9	453.2	430.2	413.6	407.2	404.7	403.4
22.5°	4142.4	2845.4	986.8	517.0	448.1	417.4	388.1	368.9	363.8	361.3	362.5
25°	3976.5	2541.6	781.3	454.5	411.1	374.0	348.5	334.5	329.4	329.4	330.6
27.5°	3805.4	2223.8	619.1	407.2	366.4	333.2	312.8	303.8	302.5	306.4	307.7
30°	3647.1	1904.6	501.7	368.9	326.8	298.7	284.7	282.1	282.1	283.4	284.7
32.5°	3471.0	1625.1	420.0	335.7	294.9	270.6	263.0	263.0	265.5	265.5	268.1
35°	3359.9	1385.1	368.9	303.8	270.6	250.2	245.1	246.4	250.2	255.3	257.9
37.5°	3299.9	1193.6	335.7	278.3	247.7	233.6	228.5	231.1	240.0	248.9	250.2
40°	3305.0	1049.3	308.9	256.6	229.8	214.5	210.6	218.3	227.2	236.2	237.4
42.5°	3361.2	942.1	283.4	231.1	214.5	192.8	191.5	199.1	203.0	211.9	213.2
45°	3427.6	864.2	256.6	204.2	186.4	167.2	168.5	174.9	180.0	194.0	196.6
47.5°	3448.0	810.6	226.0	173.6	153.2	146.8	148.1	151.9	162.1	174.9	176.2
50°	3471.0	777.4	196.6	146.8	130.2	128.9	130.2	132.8	139.1	144.3	143.0
52.5°	3569.3	776.1	172.3	127.7	111.1	113.6	114.9	113.6	108.5	100.8	98.3
54°	3661.2	780.0	160.8	118.7	102.1	106.0	104.7	98.3	85.5	77.9	74.0
55°	3735.2	783.8	154.5	112.3	97.0	98.3	99.6	86.8	70.2	62.6	60.0
57.5°	3880.7	774.9	139.1	98.3	85.5	80.4	79.1	57.4	38.3	33.2	30.6
60°	3808.0	699.6	126.4	84.3	72.8	65.1	53.6	31.9	19.1	14.0	14.0
62.5°	3522.0	593.6	112.3	68.9	60.0	49.8	28.1	17.9	8.9	5.1	3.8
65°	3150.5	499.1	100.8	54.9	47.2	31.9	15.3	11.5	3.8	0.0	0.0
67.5°	2342.5	370.2	85.5	43.4	35.7	20.4	10.2	6.4	1.3	0.0	0.0
70°	1085.1	226.0	72.8	33.2	25.5	15.3	7.7	3.8	0.0	0.0	0.0
72.5°	311.5	141.7	60.0	24.3	17.9	12.8	6.4	2.6	1.3	0.0	0.0
75°	108.5	113.6	44.7	17.9	14.0	8.9	5.1	2.6	1.3	0.0	0.0
77.5°	65.1	91.9	28.1	15.3	11.5	7.7	5.1	2.6	1.3	1.3	0.0
80°	37.0	61.3	17.9	12.8	10.2	6.4	3.8	2.6	1.3	1.3	0.0
82.5°	20.4	29.4	14.0	11.5	8.9	6.4	3.8	2.6	1.3	1.3	1.3
85°	16.6	15.3	11.5	10.2	7.7	5.1	3.8	1.3	0.0	0.0	0.0
87.5°	12.8	10.2	10.2	10.2	7.7	5.1	3.8	1.3	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)