

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: P454514

Luminaire Tested: **GALN-SA5C-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454514
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-SA5C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA 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: 21205 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

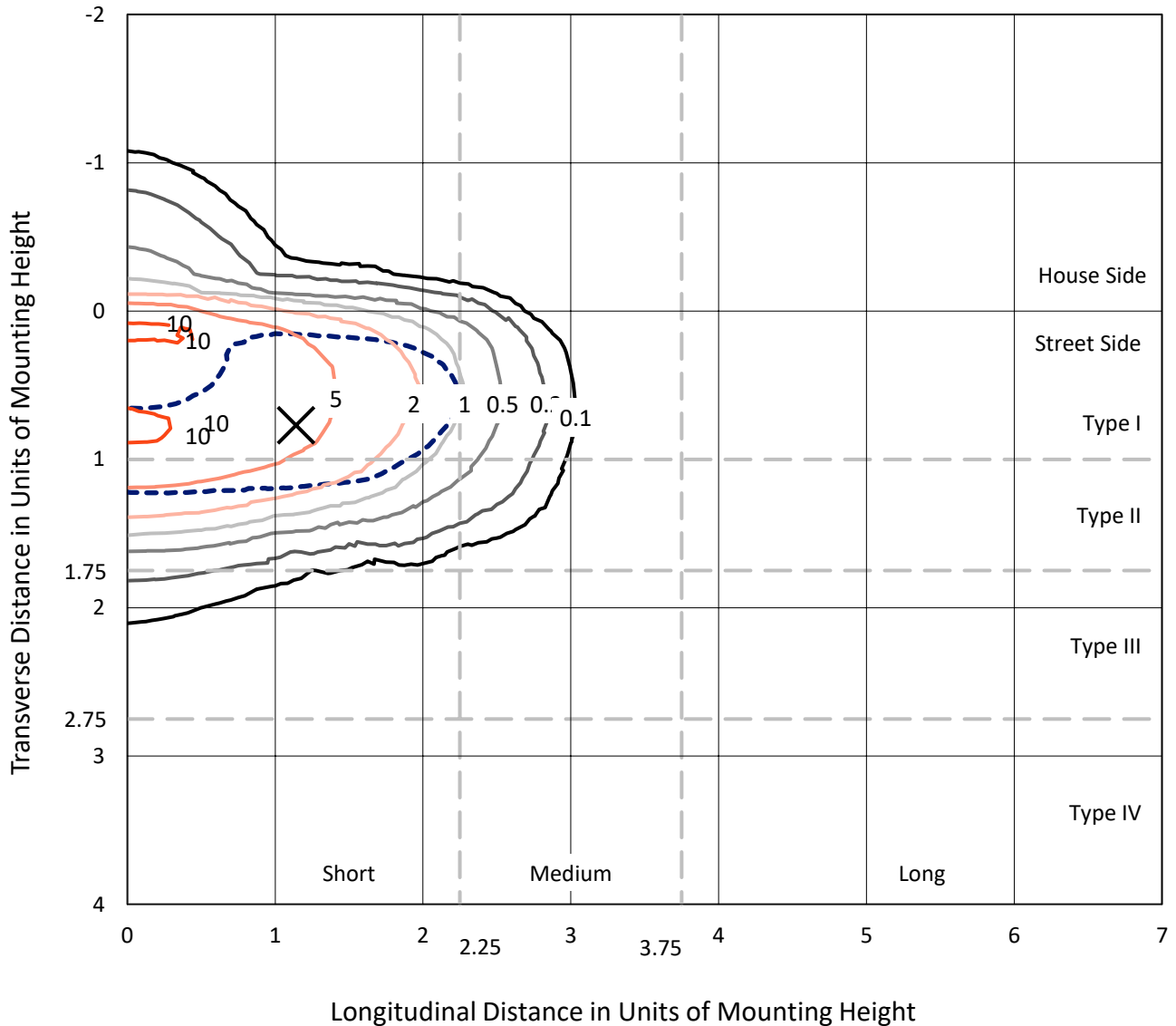
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

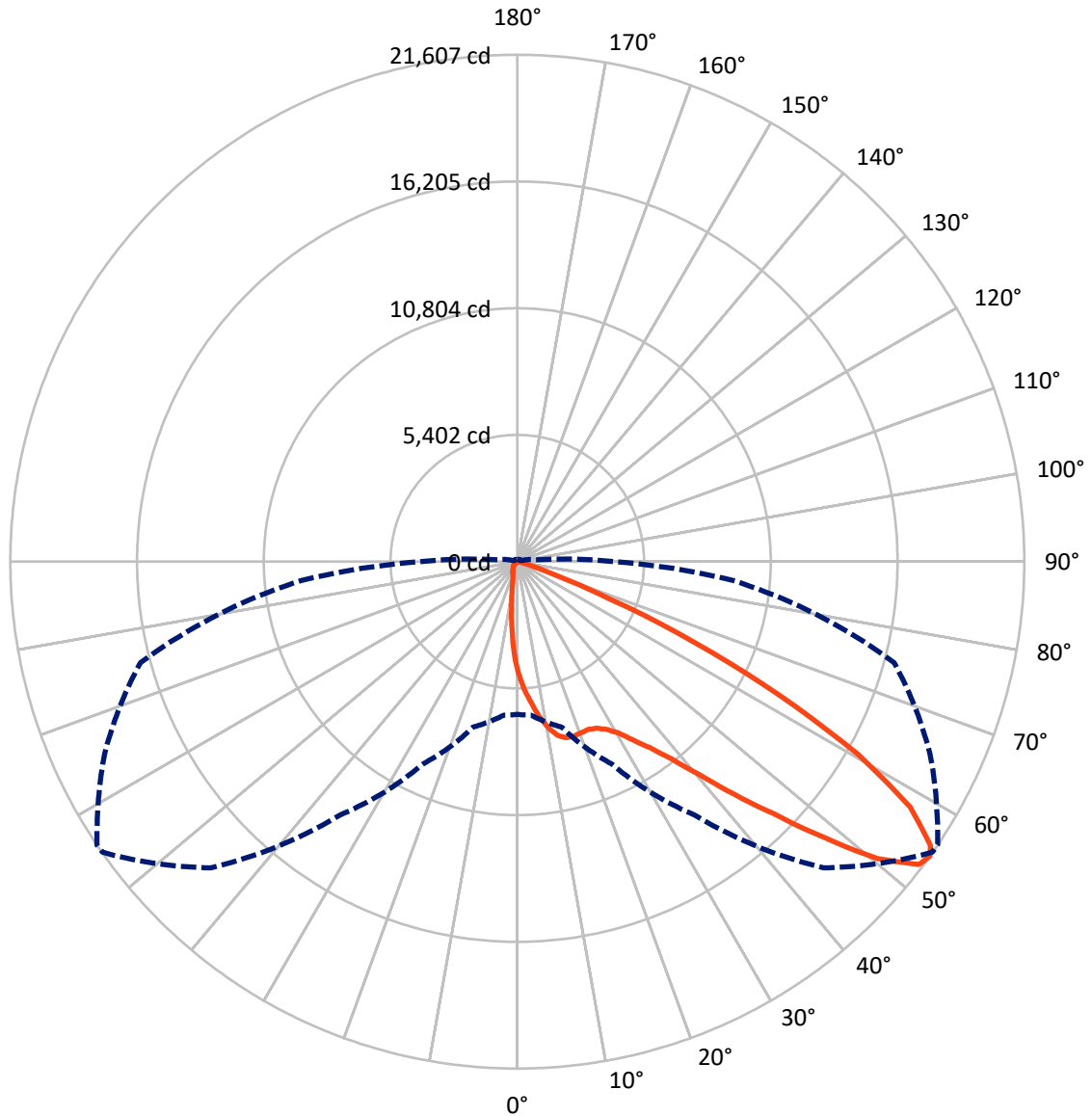
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	1002.7	0.0	1002.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	20202.3	0.0	20202.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	21205.0	0.0	21205.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.3	2.0
10°-20°	1125.4	5.3
20°-30°	1949.1	9.2
30°-40°	3364.5	15.9
40°-50°	5726.5	27.0
50°-60°	5667.1	26.7
60°-70°	2586.6	12.2
70°-80°	332.2	1.6
80°-90°	37.4	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°	21205.0	100.0
0°-180°	21205.0	100.0

Coefficient of Utilization



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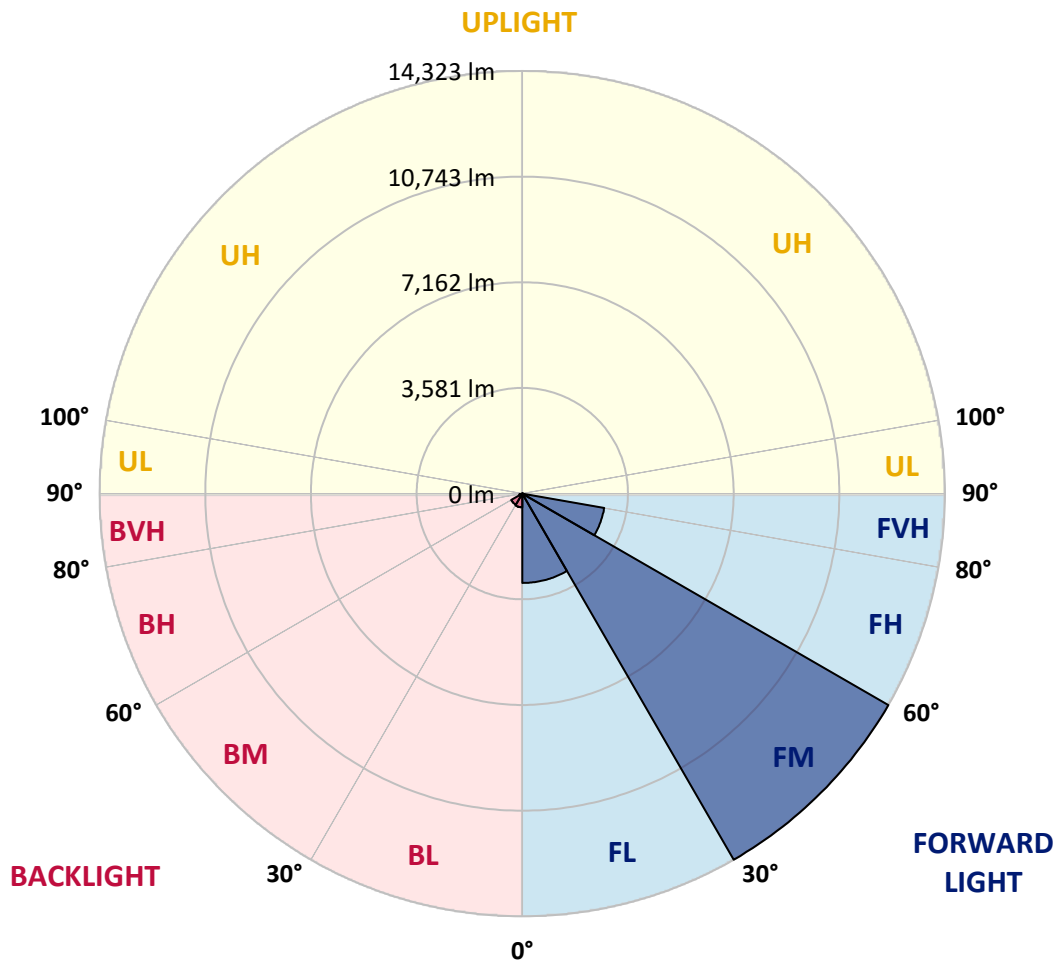
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3027.1	14.3			
FM	(30°-60°)	14323.4	67.5			
FH	(60°-80°)	2818.3	13.3			G2/5000
FVH	(80°-90°)	33.4	0.2			G1/100
BL	(0°-30°)	463.7	2.2	B1/500		
BM	(30°-60°)	434.6	2.0	B1/1000		
BH	(60°-80°)	100.4	0.5	B0/110		G0/110
BVH	(80°-90°)	4.0	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4711.1	4711.1	4711.1	4711.1	4711.1	4711.1	4711.1	4711.1	4711.1	4711.1	4711.1
2.5°	5987.3	5945.8	5888.6	5844.2	5739.8	5589.6	5430.8	5430.8	5277.7	5064.5	4847.1
5°	6905.8	6878.6	6822.8	6708.3	6591.0	6380.7	6061.7	6005.9	5732.6	5346.4	4940.0
7.5°	7279.2	7292.0	7294.9	7264.9	7209.1	7001.6	6685.4	6646.8	6210.5	5692.6	5061.7
10°	6921.5	6984.4	7046.0	7170.4	7346.4	7396.5	7217.6	7177.6	6748.4	6043.1	5193.3
12.5°	6389.3	6423.6	6458.0	6654.0	7007.3	7412.2	7599.6	7598.2	7234.8	6392.2	5360.7
15°	6141.8	6171.8	6174.7	6262.0	6568.1	7157.6	7762.7	7784.2	7709.8	6822.8	5540.9
17.5°	6193.3	6217.6	6197.6	6219.1	6379.3	6877.2	7744.1	7815.7	8094.6	7236.2	5704.0
20°	6529.5	6576.7	6499.5	6439.4	6488.0	6802.8	7681.2	7781.3	8366.5	7639.7	5852.8
22.5°	7133.2	7159.0	7061.7	6897.2	6811.3	6958.7	7664.0	7762.7	8598.2	7970.2	5938.6
25°	7804.2	7795.6	7688.3	7503.8	7323.5	7273.4	7777.0	7865.7	8789.9	8267.7	5964.4
27.5°	8475.2	8500.9	8320.7	8091.8	7875.7	7745.6	8030.3	8096.1	9006.0	8606.8	5995.9
30°	9254.9	9213.4	9036.0	8774.2	8526.7	8345.0	8438.0	8456.6	9303.5	9056.0	6078.8
32.5°	10269.2	10154.8	9955.9	9498.1	9320.7	9013.1	9036.0	9058.9	9665.5	9501.0	6179.0
35°	11645.5	11639.8	11250.7	10634.0	10202.0	9820.0	9719.9	9738.5	10213.4	10161.9	6400.7
37.5°	13302.2	13325.1	12881.6	12260.7	11465.3	10858.7	10652.6	10655.5	11046.1	11074.7	6738.4
40°	14651.3	14711.4	14446.7	14027.6	13242.1	12293.6	11947.4	11915.9	12216.3	12180.6	7220.5
42.5°	15232.2	15288.0	15386.7	15532.6	15100.5	14318.0	13501.1	13544.0	13635.6	13385.2	7761.3
45°	14947.5	15036.2	15423.9	16325.2	16731.5	16468.3	15494.0	15343.8	14956.0	14694.2	8304.9
47.5°	13761.5	13977.5	14625.6	16126.3	17548.4	18438.3	17743.0	17544.1	16278.0	15649.9	8651.2
50°	11811.5	11824.3	12727.1	14645.6	17124.9	19681.5	20039.2	19890.4	17509.8	16186.4	8825.7
52.5°	8562.5	8844.3	9671.2	11893.0	15290.8	19492.7	21502.7	21441.2	18780.2	16461.1	9077.5
54°	6509.5	6563.8	7299.2	9503.8	13183.5	18455.4	21592.9	21607.2	19411.1	16627.1	9226.3
55°	5336.3	5206.1	5978.7	8096.1	11745.7	17538.4	21298.1	21366.8	19694.4	16712.9	9336.4
57.5°	2529.4	2530.8	3121.7	4270.5	7356.4	13618.4	19496.9	19740.2	19725.8	16860.2	9675.5
60°	1280.4	1289.0	1419.2	1971.4	3633.9	9053.2	16120.6	16700.0	18207.9	16881.7	9787.1
62.5°	895.6	885.6	864.1	948.5	1529.4	4601.0	12001.8	12505.3	15469.7	16064.8	9432.3
65°	766.8	745.4	685.3	672.4	772.6	1832.7	7475.2	8296.4	11811.5	13910.2	8422.3
67.5°	655.2	646.7	592.3	559.4	546.5	798.3	3857.0	4289.1	8073.2	9998.8	6379.3
70°	556.5	552.2	519.3	477.8	442.1	477.8	1430.7	1772.6	4499.4	5383.5	3010.1
72.5°	452.1	456.4	462.1	409.2	372.0	339.1	610.9	711.0	1882.7	1924.2	1053.0
75°	396.3	392.0	392.0	356.2	310.5	251.8	336.2	362.0	576.6	535.1	244.6
77.5°	279.0	269.0	314.7	293.3	258.9	178.8	191.7	203.2	238.9	204.6	114.5
80°	193.1	193.1	201.7	263.2	233.2	130.2	117.3	125.9	141.6	121.6	65.8
82.5°	108.7	111.6	131.6	140.2	135.9	87.3	77.3	78.7	94.4	83.0	41.5
85°	12.9	21.5	75.8	74.4	55.8	38.6	42.9	44.4	58.7	51.5	24.3
87.5°	1.4	2.9	15.7	20.0	14.3	15.7	15.7	15.7	20.0	22.9	17.2
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°	4711.1	4711.1	4711.1	4711.1	4711.1	4711.1	4711.1	4711.1	4711.1	4711.1	4711.1
2.5°	4729.7	4621.0	4362.1	4061.6	3869.9	3558.0	3294.8	3104.5	3057.3	2965.7	2992.9
5°	4724.0	4498.0	3970.1	3412.1	2817.0	2373.5	2043.0	1782.6	1668.1	1592.3	1539.4
7.5°	4726.9	4373.5	3526.6	2638.1	1927.1	1492.2	1186.0	1027.2	921.3	877.0	882.7
10°	4735.5	4233.3	3011.5	1954.3	1300.5	964.3	776.8	701.0	665.3	659.5	658.1
12.5°	4755.5	4080.2	2519.4	1450.7	909.9	701.0	629.5	603.7	592.3	592.3	588.0
15°	4777.0	3911.4	2110.2	1078.7	701.0	602.3	569.4	556.5	549.4	549.4	547.9
17.5°	4777.0	3716.8	1728.2	836.9	603.7	553.7	527.9	510.7	505.0	505.0	503.6
20°	4746.9	3490.8	1389.2	673.8	547.9	507.9	482.1	463.5	456.4	453.5	452.1
22.5°	4642.5	3188.9	1105.9	579.4	502.2	467.8	434.9	413.5	407.7	404.9	406.3
25°	4456.5	2848.4	875.6	509.3	460.7	419.2	390.6	374.8	369.1	369.1	370.5
27.5°	4264.8	2492.2	693.9	456.4	410.6	373.4	350.5	340.5	339.1	343.4	344.8
30°	4087.4	2134.5	562.2	413.5	366.2	334.8	319.0	316.2	316.2	317.6	319.0
32.5°	3889.9	1821.2	470.7	376.3	330.5	303.3	294.7	294.7	297.6	297.6	300.4
35°	3765.5	1552.3	413.5	340.5	303.3	280.4	274.7	276.1	280.4	286.1	289.0
37.5°	3698.2	1337.7	376.3	311.9	277.5	261.8	256.1	258.9	269.0	279.0	280.4
40°	3704.0	1176.0	346.2	287.6	257.5	240.3	236.1	244.6	254.7	264.7	266.1
42.5°	3766.9	1055.8	317.6	258.9	240.3	216.0	214.6	223.2	227.5	237.5	238.9
45°	3841.3	968.6	287.6	228.9	208.9	187.4	188.8	196.0	201.7	217.5	220.3
47.5°	3864.2	908.5	253.2	194.6	171.7	164.5	166.0	170.2	181.7	196.0	197.4
50°	3889.9	871.3	220.3	164.5	145.9	144.5	145.9	148.8	155.9	161.7	160.2
52.5°	4000.1	869.8	193.1	143.1	124.5	127.3	128.8	127.3	121.6	113.0	110.2
54°	4103.1	874.1	180.3	133.1	114.5	118.7	117.3	110.2	95.9	87.3	83.0
55°	4186.1	878.4	173.1	125.9	108.7	110.2	111.6	97.3	78.7	70.1	67.2
57.5°	4349.2	868.4	155.9	110.2	95.9	90.1	88.7	64.4	42.9	37.2	34.3
60°	4267.6	784.0	141.6	94.4	81.5	73.0	60.1	35.8	21.5	15.7	15.7
62.5°	3947.2	665.3	125.9	77.3	67.2	55.8	31.5	20.0	10.0	5.7	4.3
65°	3530.9	559.4	113.0	61.5	52.9	35.8	17.2	12.9	4.3	0.0	0.0
67.5°	2625.2	414.9	95.9	48.6	40.1	22.9	11.4	7.2	1.4	0.0	0.0
70°	1216.1	253.2	81.5	37.2	28.6	17.2	8.6	4.3	0.0	0.0	0.0
72.5°	349.1	158.8	67.2	27.2	20.0	14.3	7.2	2.9	1.4	0.0	0.0
75°	121.6	127.3	50.1	20.0	15.7	10.0	5.7	2.9	1.4	0.0	0.0
77.5°	73.0	103.0	31.5	17.2	12.9	8.6	5.7	2.9	1.4	1.4	0.0
80°	41.5	68.7	20.0	14.3	11.4	7.2	4.3	2.9	1.4	1.4	0.0
82.5°	22.9	32.9	15.7	12.9	10.0	7.2	4.3	2.9	1.4	1.4	1.4
85°	18.6	17.2	12.9	11.4	8.6	5.7	4.3	1.4	0.0	0.0	0.0
87.5°	14.3	11.4	11.4	11.4	8.6	5.7	4.3	1.4	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)