

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: P452774

Luminaire Tested: **GALN-SA3D-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452774
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-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 17231 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

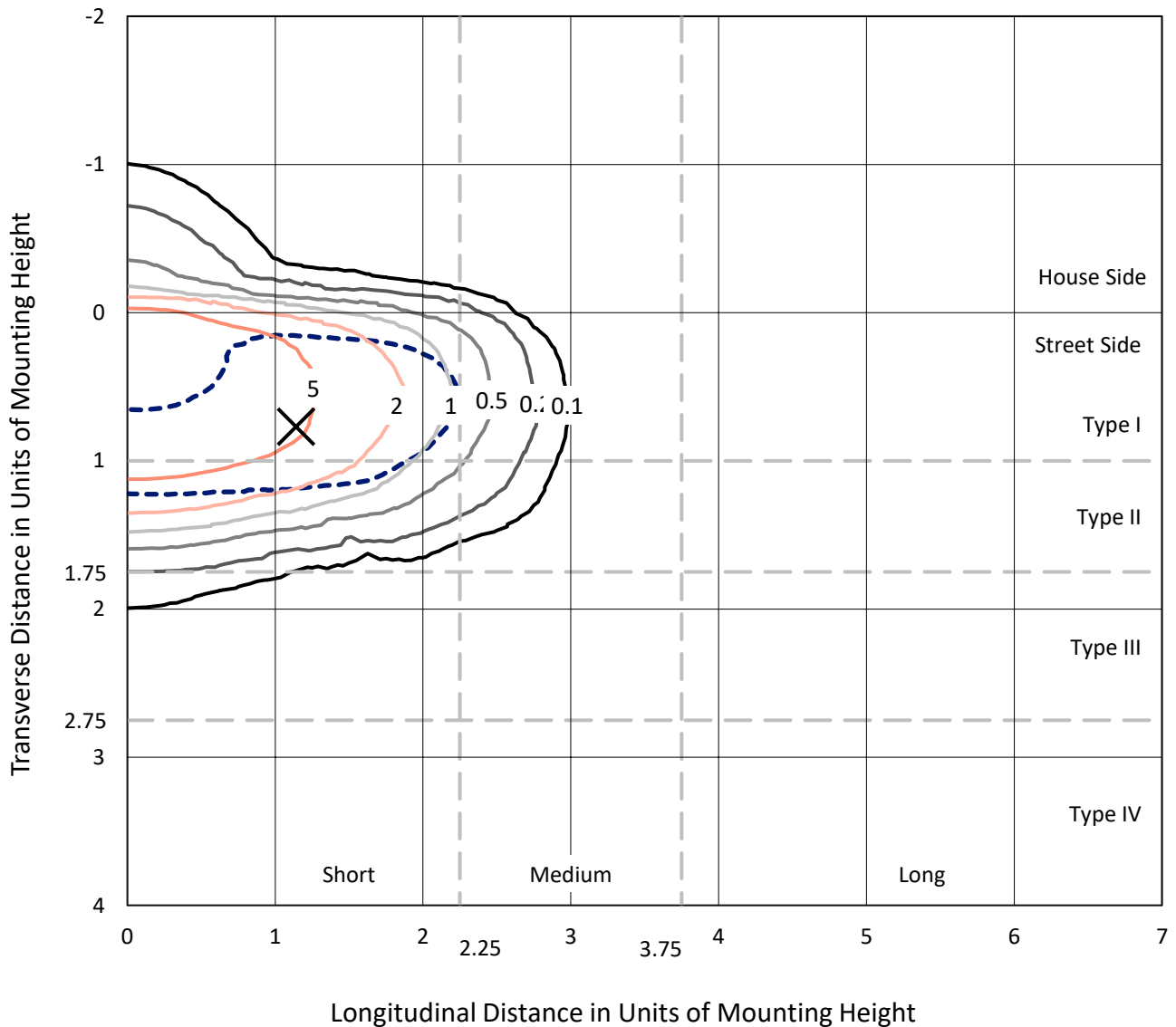
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

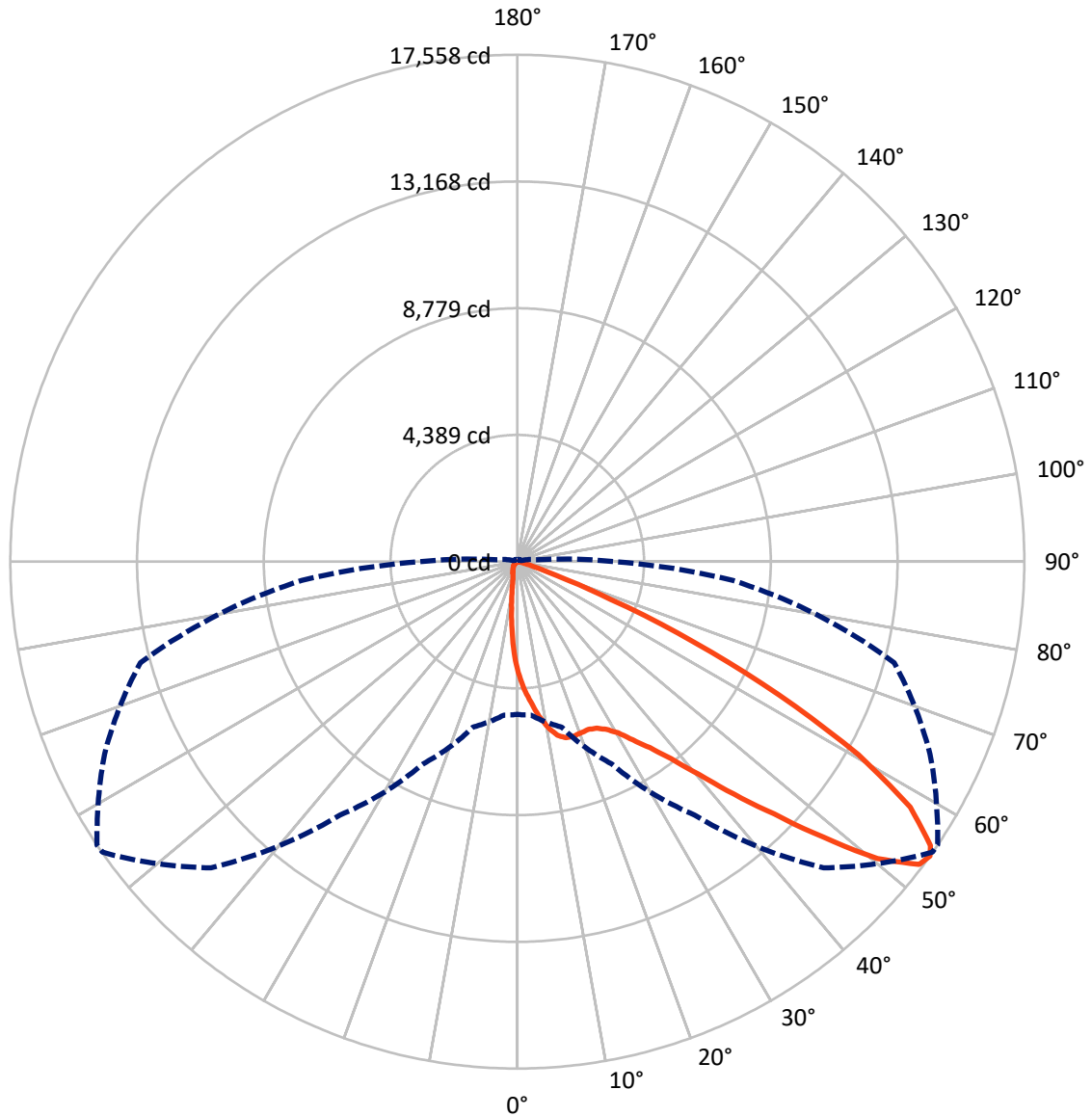
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	814.8	0.0	814.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	16416.2	0.0	16416.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	17231.0	0.0	17231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	2.0
10°-20°	914.5	5.3
20°-30°	1583.8	9.2
30°-40°	2733.9	15.9
40°-50°	4653.3	27.0
50°-60°	4605.0	26.7
60°-70°	2101.8	12.2
70°-80°	269.9	1.6
80°-90°	30.4	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°	17231.0	100.0
0°-180°	17231.0	100.0

Coefficient of Utilization



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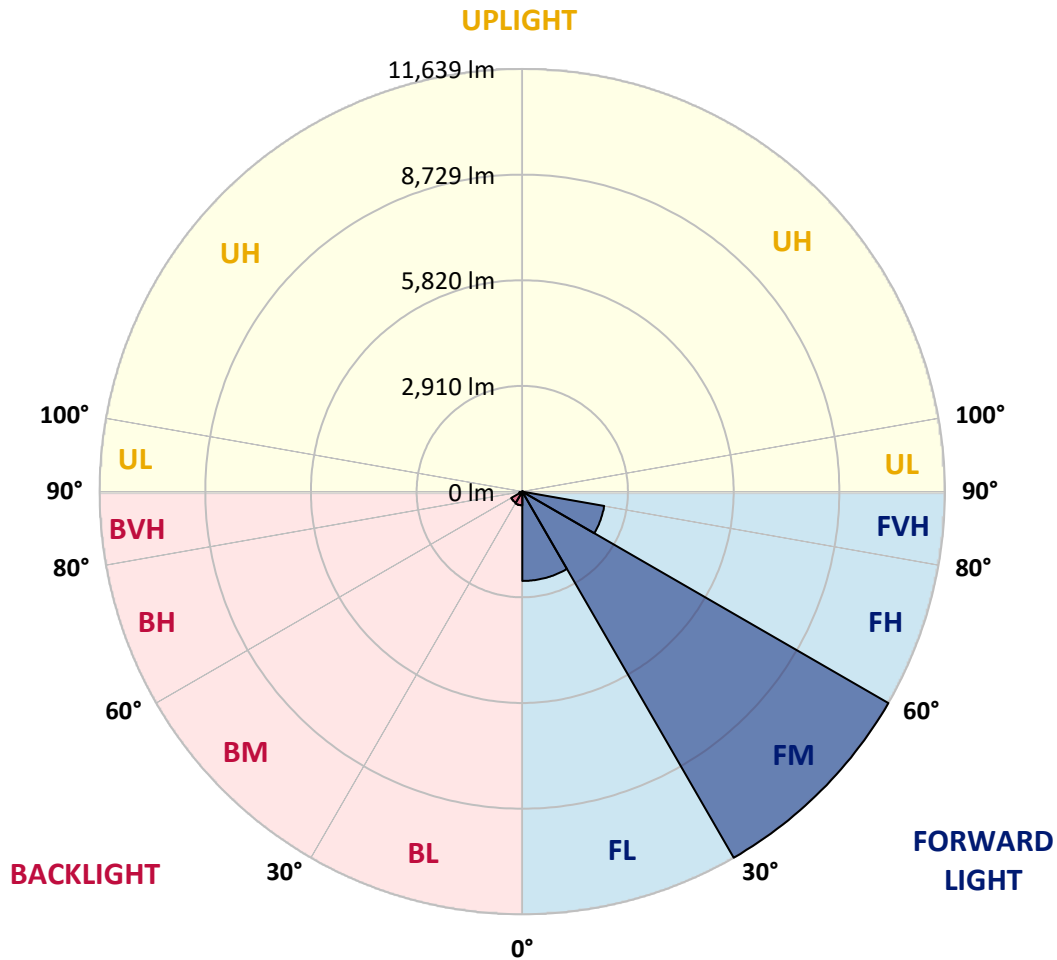
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2459.8	14.3			
FM (30°-60°)	11639.1	67.5			
FH (60°-80°)	2290.1	13.3			G2/5000
FVH (80°-90°)	27.2	0.2			G1/100
BL (0°-30°)	376.8	2.2	B1/500		
BM (30°-60°)	353.1	2.0	B1/1000		
BH (60°-80°)	81.6	0.5	B0/110		G0/110
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2
2.5°	4865.2	4831.5	4785.0	4749.0	4664.1	4542.0	4413.0	4413.0	4288.6	4115.4	3938.7
5°	5611.6	5589.5	5544.1	5451.1	5355.8	5184.9	4925.7	4880.3	4658.3	4344.4	4014.2
7.5°	5915.0	5925.4	5927.8	5903.4	5858.0	5689.5	5432.5	5401.1	5046.6	4625.7	4113.1
10°	5624.4	5675.5	5725.5	5826.6	5969.6	6010.3	5865.0	5832.4	5483.7	4910.6	4220.0
12.5°	5191.9	5219.8	5247.7	5407.0	5694.1	6023.1	6175.4	6174.2	5878.9	5194.2	4356.0
15°	4990.8	5015.2	5017.5	5088.4	5337.2	5816.2	6307.9	6325.4	6264.9	5544.1	4502.5
17.5°	5032.6	5052.4	5036.1	5053.5	5183.8	5588.3	6292.8	6350.9	6577.6	5880.1	4635.0
20°	5305.8	5344.2	5281.4	5232.6	5272.1	5527.9	6241.7	6323.0	6798.5	6207.9	4755.9
22.5°	5796.4	5817.3	5738.3	5604.6	5534.8	5654.6	6227.7	6307.9	6986.8	6476.5	4825.7
25°	6341.6	6334.7	6247.5	6097.5	5951.0	5910.3	6319.5	6391.6	7142.6	6718.3	4846.6
27.5°	6886.9	6907.8	6761.3	6575.3	6399.8	6294.0	6525.3	6578.8	7318.2	6993.8	4872.2
30°	7520.4	7486.7	7342.6	7129.8	6928.7	6781.1	6856.6	6871.8	7560.0	7358.9	4939.6
32.5°	8344.7	8251.7	8090.1	7718.1	7573.9	7324.0	7342.6	7361.2	7854.1	7720.4	5021.0
35°	9463.0	9458.4	9142.2	8641.1	8290.0	7979.7	7898.3	7913.4	8299.3	8257.5	5201.2
37.5°	10809.3	10827.9	10467.5	9962.9	9316.6	8823.7	8656.2	8658.6	8975.9	8999.2	5475.5
40°	11905.5	11954.4	11739.3	11398.7	10760.4	9989.7	9708.3	9682.8	9926.9	9897.8	5867.3
42.5°	12377.5	12422.9	12503.1	12621.7	12270.6	11634.7	10970.9	11005.7	11080.1	10876.7	6306.8
45°	12146.2	12218.3	12533.3	13265.7	13595.9	13382.0	12590.3	12468.2	12153.2	11940.4	6748.5
47.5°	11182.4	11358.0	11884.6	13104.1	14259.7	14982.8	14417.8	14256.2	13227.3	12717.0	7029.9
50°	9597.9	9608.4	10341.9	11900.9	13915.6	15993.0	16283.6	16162.7	14228.3	13152.9	7171.7
52.5°	6957.8	7186.8	7858.7	9664.2	12425.2	15839.6	17472.9	17422.9	15260.6	13376.1	7376.3
54°	5289.5	5333.7	5931.3	7722.7	10712.8	14996.7	17546.2	17557.8	15773.3	13511.0	7497.2
55°	4336.3	4230.5	4858.2	6578.8	9544.4	14251.5	17306.7	17362.5	16003.5	13580.8	7586.7
57.5°	2055.4	2056.5	2536.7	3470.2	5977.8	11066.2	15843.0	16040.7	16029.1	13700.5	7862.2
60°	1040.5	1047.4	1153.2	1602.0	2952.8	7356.5	13099.5	13570.3	14795.6	13717.9	7952.9
62.5°	727.7	719.6	702.2	770.8	1242.8	3738.7	9752.5	10161.7	12570.5	13054.1	7664.6
65°	623.1	605.7	556.9	546.4	627.8	1489.2	6074.3	6741.5	9597.9	11303.3	6843.9
67.5°	532.4	525.5	481.3	454.6	444.1	648.7	3134.2	3485.3	6560.2	8125.0	5183.8
70°	452.2	448.7	422.0	388.3	359.2	388.3	1162.5	1440.4	3656.2	4374.6	2446.0
72.5°	367.4	370.8	375.5	332.5	302.3	275.5	496.4	577.8	1529.9	1563.6	855.6
75°	322.0	318.5	318.5	289.5	252.3	204.6	273.2	294.1	468.5	434.8	198.8
77.5°	226.7	218.6	255.8	238.3	210.4	145.3	155.8	165.1	194.1	166.2	93.0
80°	156.9	156.9	163.9	213.9	189.5	105.8	95.3	102.3	115.1	98.8	53.5
82.5°	88.4	90.7	107.0	113.9	110.4	70.9	62.8	63.9	76.7	67.4	33.7
85°	10.5	17.4	61.6	60.5	45.3	31.4	34.9	36.0	47.7	41.9	19.8
87.5°	1.2	2.3	12.8	16.3	11.6	12.8	12.8	12.8	16.3	18.6	14.0
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°	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2
2.5°	3843.3	3755.0	3544.6	3300.4	3144.7	2891.2	2677.3	2522.7	2484.3	2409.9	2432.0
5°	3838.7	3655.0	3226.0	2772.6	2289.0	1928.6	1660.1	1448.5	1355.5	1293.9	1250.9
7.5°	3841.0	3553.9	2865.7	2143.7	1565.9	1212.5	963.7	834.7	748.7	712.6	717.3
10°	3848.0	3439.9	2447.1	1588.0	1056.7	783.5	631.3	569.6	540.6	535.9	534.8
12.5°	3864.3	3315.6	2047.2	1178.8	739.4	569.6	511.5	490.6	481.3	481.3	477.8
15°	3881.7	3178.4	1714.7	876.6	569.6	489.4	462.7	452.2	446.4	446.4	445.3
17.5°	3881.7	3020.3	1404.3	680.1	490.6	449.9	429.0	415.0	410.4	410.4	409.2
20°	3857.3	2836.6	1128.8	547.6	445.3	412.7	391.8	376.7	370.8	368.5	367.4
22.5°	3772.4	2591.3	898.6	470.8	408.1	380.1	353.4	336.0	331.3	329.0	330.2
25°	3621.3	2314.6	711.5	413.9	374.3	340.6	317.4	304.6	299.9	299.9	301.1
27.5°	3465.5	2025.1	563.8	370.8	333.6	303.4	284.8	276.7	275.5	279.0	280.2
30°	3321.4	1734.5	456.9	336.0	297.6	272.0	259.2	256.9	256.9	258.1	259.2
32.5°	3160.9	1479.9	382.5	305.7	268.5	246.5	239.5	239.5	241.8	241.8	244.1
35°	3059.8	1261.4	336.0	276.7	246.5	227.9	223.2	224.4	227.9	232.5	234.8
37.5°	3005.2	1087.0	305.7	253.4	225.5	212.7	208.1	210.4	218.6	226.7	227.9
40°	3009.8	955.6	281.3	233.7	209.3	195.3	191.8	198.8	206.9	215.1	216.2
42.5°	3061.0	858.0	258.1	210.4	195.3	175.5	174.4	181.4	184.8	193.0	194.1
45°	3121.4	787.0	233.7	186.0	169.7	152.3	153.5	159.3	163.9	176.7	179.0
47.5°	3140.0	738.2	205.8	158.1	139.5	133.7	134.9	138.3	147.6	159.3	160.4
50°	3160.9	708.0	179.0	133.7	118.6	117.4	118.6	120.9	126.7	131.4	130.2
52.5°	3250.5	706.8	156.9	116.3	101.1	103.5	104.6	103.5	98.8	91.8	89.5
54°	3334.2	710.3	146.5	108.1	93.0	96.5	95.3	89.5	77.9	70.9	67.4
55°	3401.6	713.8	140.7	102.3	88.4	89.5	90.7	79.1	63.9	57.0	54.6
57.5°	3534.1	705.7	126.7	89.5	77.9	73.2	72.1	52.3	34.9	30.2	27.9
60°	3467.8	637.1	115.1	76.7	66.3	59.3	48.8	29.1	17.4	12.8	12.8
62.5°	3207.4	540.6	102.3	62.8	54.6	45.3	25.6	16.3	8.1	4.7	3.5
65°	2869.1	454.6	91.8	50.0	43.0	29.1	14.0	10.5	3.5	0.0	0.0
67.5°	2133.3	337.1	77.9	39.5	32.6	18.6	9.3	5.8	1.2	0.0	0.0
70°	988.2	205.8	66.3	30.2	23.3	14.0	7.0	3.5	0.0	0.0	0.0
72.5°	283.7	129.0	54.6	22.1	16.3	11.6	5.8	2.3	1.2	0.0	0.0
75°	98.8	103.5	40.7	16.3	12.8	8.1	4.7	2.3	1.2	0.0	0.0
77.5°	59.3	83.7	25.6	14.0	10.5	7.0	4.7	2.3	1.2	1.2	0.0
80°	33.7	55.8	16.3	11.6	9.3	5.8	3.5	2.3	1.2	1.2	0.0
82.5°	18.6	26.7	12.8	10.5	8.1	5.8	3.5	2.3	1.2	1.2	1.2
85°	15.1	14.0	10.5	9.3	7.0	4.7	3.5	1.2	0.0	0.0	0.0
87.5°	11.6	9.3	9.3	9.3	7.0	4.7	3.5	1.2	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)