

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: P456863

Luminaire Tested: **GALN-SA8A-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456863
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-SA8A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 24042 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 244
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



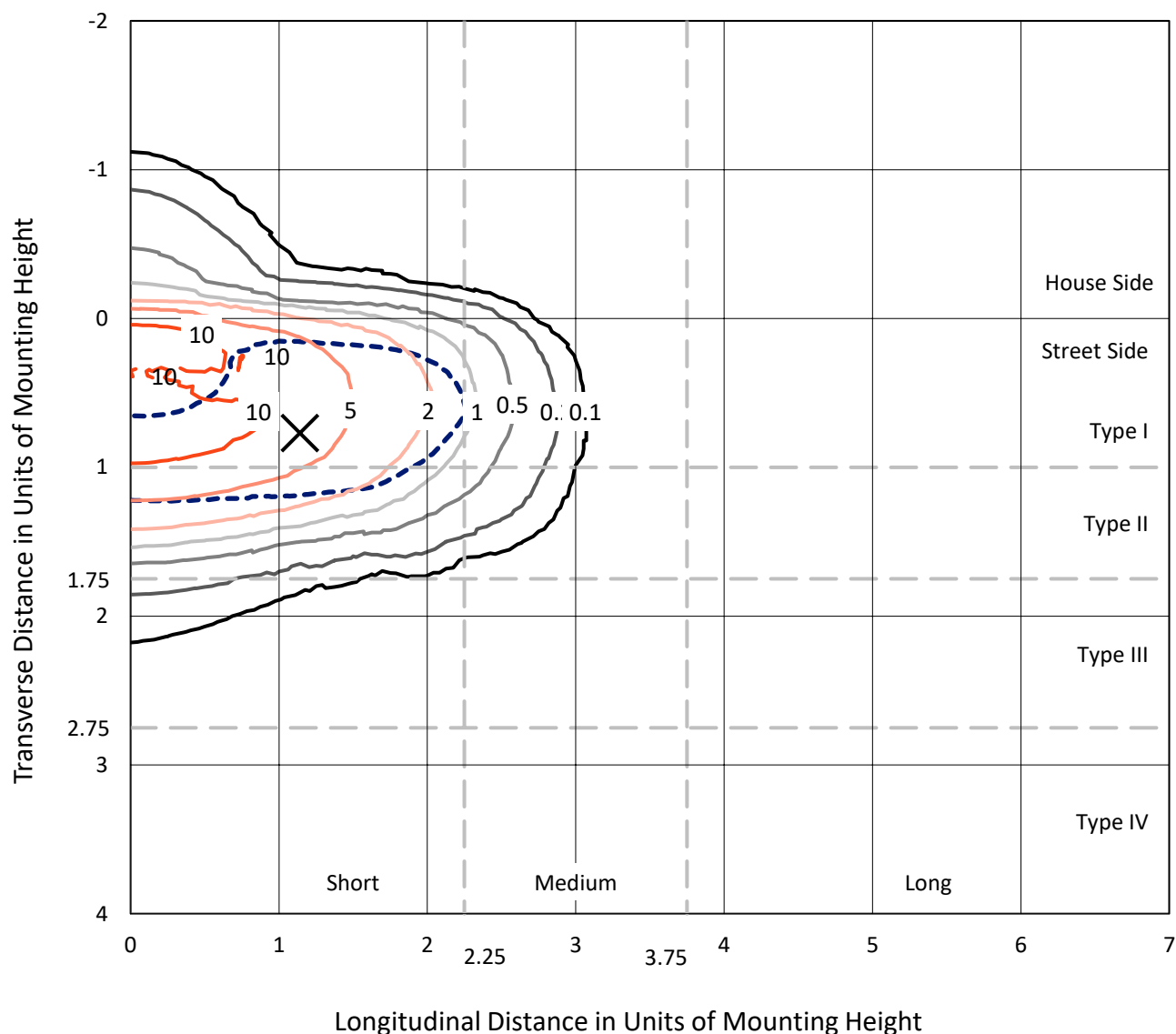
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

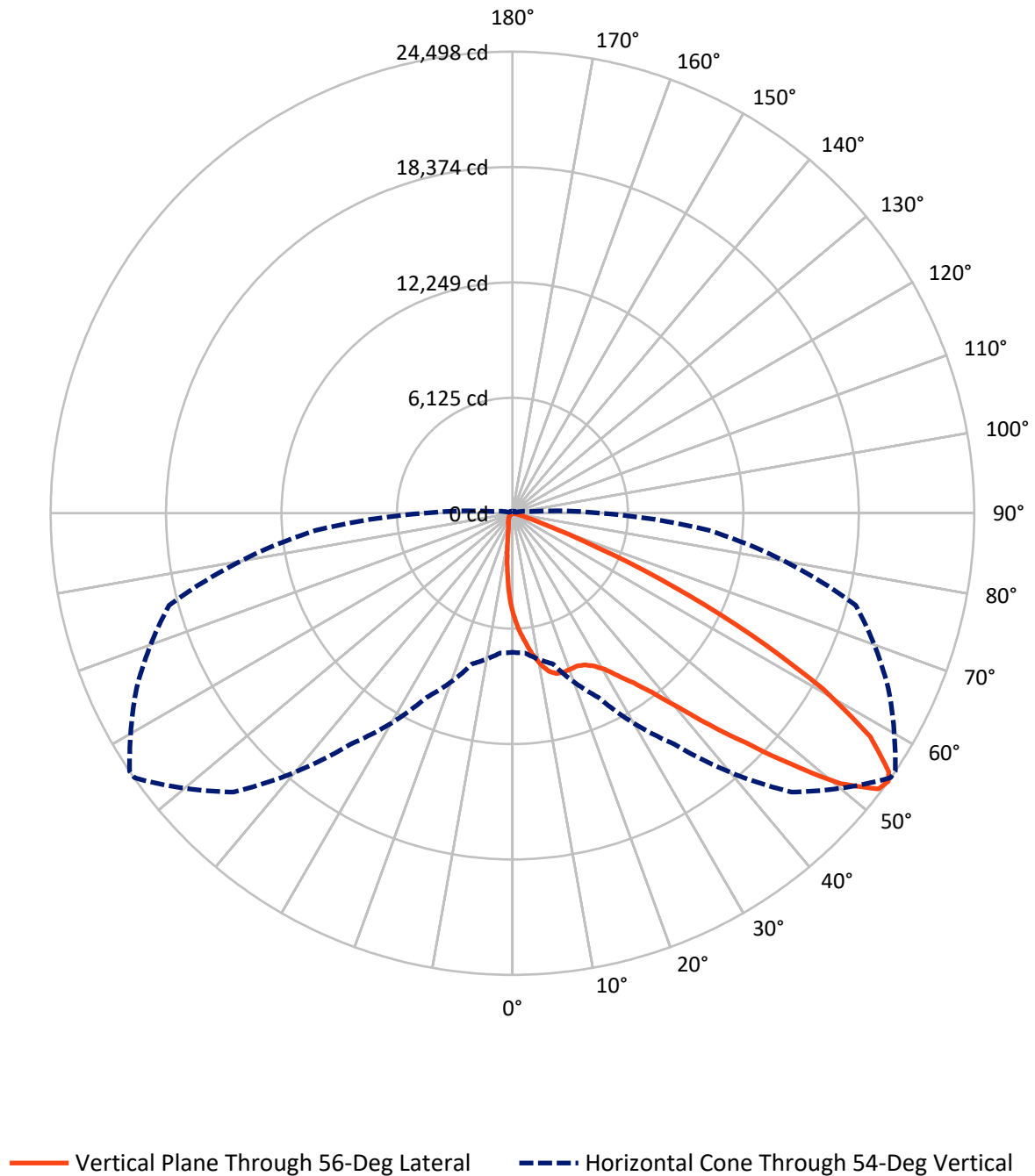


Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1136.9	0.0	1136.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	22905.1	0.0	22905.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	24042.0	0.0	24042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.0	2.0
10°-20°	1276.0	5.3
20°-30°	2209.9	9.2
30°-40°	3814.6	15.9
40°-50°	6492.6	27.0
50°-60°	6425.2	26.7
60°-70°	2932.6	12.2
70°-80°	376.6	1.6
80°-90°	42.4	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°	24042.0	100.0
0°-180°	24042.0	100.0

Coefficient of Utilization



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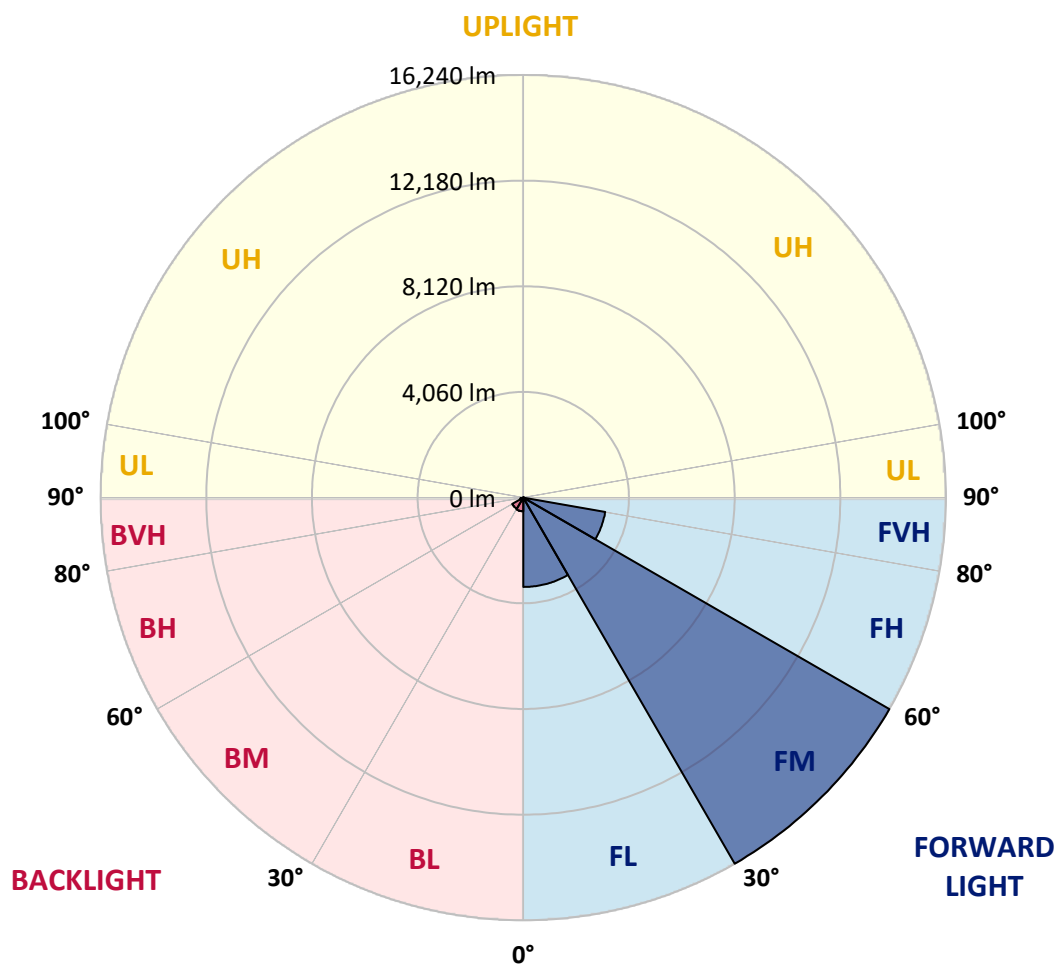
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3432.1	14.3			
FM	(30°-60°)	16239.8	67.5			
FH	(60°-80°)	3195.4	13.3			G2/5000
FVH	(80°-90°)	37.9	0.2			G1/100
BL	(0°-30°)	525.8	2.2	B2/1000		
BM	(30°-60°)	492.7	2.0	B1/1000		
BH	(60°-80°)	113.8	0.5	B1/500		G1/500
BVH	(80°-90°)	4.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4
2.5°	6788.3	6741.3	6676.4	6626.1	6507.7	6337.4	6157.3	6157.3	5983.8	5742.1	5495.5
5°	7829.7	7798.9	7735.6	7605.8	7472.8	7234.4	6872.7	6809.4	6499.6	6061.6	5601.0
7.5°	8253.0	8267.6	8270.9	8236.8	8173.6	7938.4	7579.9	7536.1	7041.4	6454.2	5738.8
10°	7847.5	7918.9	7988.6	8129.8	8329.3	8386.0	8183.3	8137.9	7651.3	6851.6	5888.1
12.5°	7244.1	7283.0	7322.0	7544.2	7944.8	8403.9	8616.4	8614.8	8202.8	7247.4	6077.9
15°	6963.5	6997.6	7000.8	7099.8	7446.9	8115.2	8801.3	8825.6	8741.3	7735.6	6282.2
17.5°	7021.9	7049.5	7026.8	7051.1	7232.8	7797.2	8780.2	8861.3	9177.6	8204.4	6467.2
20°	7403.1	7456.6	7369.0	7300.9	7356.0	7712.9	8708.8	8822.4	9485.8	8661.8	6635.8
22.5°	8087.6	8116.8	8006.5	7819.9	7722.6	7889.7	8689.4	8801.3	9748.6	9036.5	6733.2
25°	8848.3	8838.6	8716.9	8507.7	8303.3	8246.5	8817.5	8918.1	9965.9	9373.9	6762.4
27.5°	9609.1	9638.3	9433.9	9174.4	8929.4	8781.8	9104.6	9179.2	10210.9	9758.3	6798.1
30°	10493.1	10446.1	10244.9	9948.1	9667.5	9461.5	9566.9	9588.0	10548.3	10267.6	6892.1
32.5°	11643.1	11513.4	11287.9	10768.9	10567.7	10219.0	10244.9	10270.9	10958.6	10772.1	7005.7
35°	13203.6	13197.1	12755.9	12056.8	11566.9	11133.8	11020.3	11041.4	11579.9	11521.5	7257.1
37.5°	15081.9	15107.9	14605.0	13901.0	12999.2	12311.4	12077.9	12081.1	12523.9	12556.4	7639.9
40°	16611.5	16679.6	16379.6	15904.3	15013.8	13938.4	13545.8	13510.1	13850.8	13810.2	8186.5
42.5°	17270.1	17333.3	17445.2	17610.7	17120.8	16233.6	15307.4	15356.0	15459.8	15176.0	8799.7
45°	16947.3	17047.8	17487.4	18509.3	18970.0	18671.5	17566.9	17396.6	16957.0	16660.2	9416.1
47.5°	15602.6	15847.5	16582.3	18283.9	19896.2	20905.1	20116.8	19891.3	18455.8	17743.7	9808.6
50°	13391.7	13406.3	14429.8	16605.0	19416.0	22314.7	22720.2	22551.5	19852.4	18352.0	10006.5
52.5°	9708.0	10027.6	10965.1	13484.2	17336.6	22100.6	24379.6	24309.8	21292.8	18663.4	10292.0
54°	7380.4	7442.0	8275.7	10775.3	14947.3	20924.6	24481.7	24498.0	22008.1	18851.6	10460.7
55°	6050.3	5902.7	6778.6	9179.2	13317.1	19884.8	24147.6	24225.5	22329.3	18948.9	10585.6
57.5°	2867.8	2869.4	3539.3	4841.8	8340.6	15440.4	22105.4	22381.2	22365.0	19116.0	10970.0
60°	1451.7	1461.5	1609.1	2235.2	4120.0	10264.4	18277.4	18934.3	20643.9	19140.3	11096.5
62.5°	1015.4	1004.1	979.7	1075.4	1734.0	5216.5	13607.5	14178.4	17539.3	18214.1	10694.2
65°	869.4	845.1	777.0	762.4	875.9	2077.9	8475.3	9406.3	13391.7	15771.3	9549.1
67.5°	742.9	733.2	671.5	634.2	619.6	905.1	4373.1	4862.9	9153.3	11336.6	7232.8
70°	631.0	626.1	588.8	541.8	501.2	541.8	1622.1	2009.7	5101.4	6103.8	3412.8
72.5°	512.6	517.4	523.9	463.9	421.7	384.4	692.6	806.2	2134.6	2181.7	1193.8
75°	449.3	444.4	444.4	403.9	352.0	285.5	381.2	410.4	653.7	606.7	277.4
77.5°	316.3	304.9	356.9	332.5	293.6	202.8	217.4	230.3	270.9	232.0	129.8
80°	219.0	219.0	228.7	298.5	264.4	147.6	133.0	142.7	160.6	137.9	74.6
82.5°	123.3	126.5	149.2	159.0	154.1	98.9	87.6	89.2	107.1	94.1	47.0
85°	14.6	24.3	86.0	84.3	63.3	43.8	48.7	50.3	66.5	58.4	27.6
87.5°	1.6	3.2	17.8	22.7	16.2	17.8	17.8	17.8	22.7	26.0	19.5
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°	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4	5341.4
2.5°	5362.5	5239.3	4945.7	4605.0	4387.7	4034.1	3735.6	3519.9	3466.3	3362.5	3393.3
5°	5356.0	5099.8	4501.2	3868.6	3193.8	2691.0	2316.3	2021.1	1891.3	1805.4	1745.3
7.5°	5359.3	4958.6	3998.4	2991.1	2184.9	1691.8	1344.7	1164.6	1044.6	994.3	1000.8
10°	5369.0	4799.7	3414.4	2215.7	1474.5	1093.3	880.8	794.8	754.3	747.8	746.1
12.5°	5391.7	4626.1	2856.4	1644.8	1031.6	794.8	713.7	684.5	671.5	671.5	666.7
15°	5416.1	4434.7	2392.5	1223.0	794.8	682.9	645.6	631.0	622.9	622.9	621.2
17.5°	5416.1	4214.1	1959.4	948.9	684.5	627.7	598.5	579.1	572.6	572.6	571.0
20°	5382.0	3957.8	1575.0	764.0	621.2	575.8	546.6	525.5	517.4	514.2	512.6
22.5°	5263.6	3615.6	1253.9	656.9	569.3	530.4	493.1	468.8	462.3	459.0	460.7
25°	5052.7	3229.5	992.7	577.5	522.3	475.3	442.8	425.0	418.5	418.5	420.1
27.5°	4835.4	2825.6	786.7	517.4	465.5	423.4	397.4	386.1	384.4	389.3	390.9
30°	4634.2	2420.1	637.5	468.8	415.2	379.6	361.7	358.5	358.5	360.1	361.7
32.5°	4410.4	2064.9	533.7	426.6	374.7	343.9	334.1	334.1	337.4	337.4	340.6
35°	4269.3	1759.9	468.8	386.1	343.9	317.9	311.4	313.1	317.9	324.4	327.7
37.5°	4193.0	1516.6	426.6	353.6	314.7	296.8	290.3	293.6	304.9	316.3	317.9
40°	4199.5	1333.3	392.5	326.0	292.0	272.5	267.6	277.4	288.7	300.1	301.7
42.5°	4270.9	1197.1	360.1	293.6	272.5	244.9	243.3	253.0	257.9	269.3	270.9
45°	4355.2	1098.1	326.0	259.5	236.8	212.5	214.1	222.2	228.7	246.6	249.8
47.5°	4381.2	1030.0	287.1	220.6	194.6	186.5	188.2	193.0	206.0	222.2	223.8
50°	4410.4	987.8	249.8	186.5	165.5	163.8	165.5	168.7	176.8	183.3	181.7
52.5°	4535.3	986.2	219.0	162.2	141.1	144.4	146.0	144.4	137.9	128.1	124.9
54°	4652.1	991.1	204.4	150.9	129.8	134.6	133.0	124.9	108.7	98.9	94.1
55°	4746.1	995.9	196.3	142.7	123.3	124.9	126.5	110.3	89.2	79.5	76.2
57.5°	4931.1	984.6	176.8	124.9	108.7	102.2	100.6	73.0	48.7	42.2	38.9
60°	4838.6	888.9	160.6	107.1	92.5	82.7	68.1	40.6	24.3	17.8	17.8
62.5°	4475.3	754.3	142.7	87.6	76.2	63.3	35.7	22.7	11.4	6.5	4.9
65°	4003.2	634.2	128.1	69.7	60.0	40.6	19.5	14.6	4.9	0.0	0.0
67.5°	2976.5	470.4	108.7	55.2	45.4	26.0	13.0	8.1	1.6	0.0	0.0
70°	1378.8	287.1	92.5	42.2	32.4	19.5	9.7	4.9	0.0	0.0	0.0
72.5°	395.8	180.0	76.2	30.8	22.7	16.2	8.1	3.2	1.6	0.0	0.0
75°	137.9	144.4	56.8	22.7	17.8	11.4	6.5	3.2	1.6	0.0	0.0
77.5°	82.7	116.8	35.7	19.5	14.6	9.7	6.5	3.2	1.6	1.6	0.0
80°	47.0	77.9	22.7	16.2	13.0	8.1	4.9	3.2	1.6	1.6	0.0
82.5°	26.0	37.3	17.8	14.6	11.4	8.1	4.9	3.2	1.6	1.6	1.6
85°	21.1	19.5	14.6	13.0	9.7	6.5	4.9	1.6	0.0	0.0	0.0
87.5°	16.2	13.0	13.0	13.0	9.7	6.5	4.9	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)