

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: P456747

Luminaire Tested: **GALN-SA8A-740-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456747
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-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 30255 lumens
Efficiency: N/A
Efficacy: 124.0 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

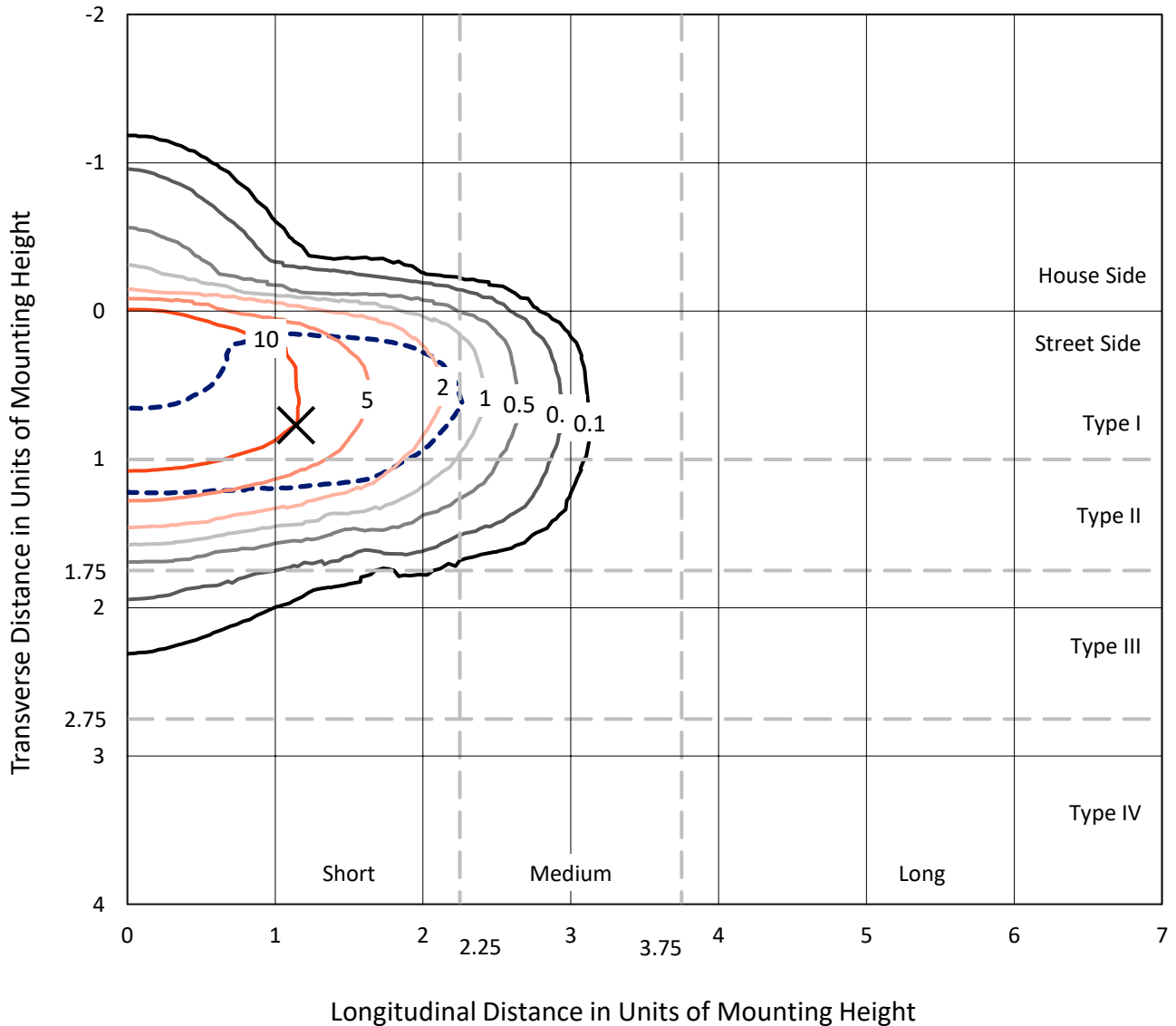
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

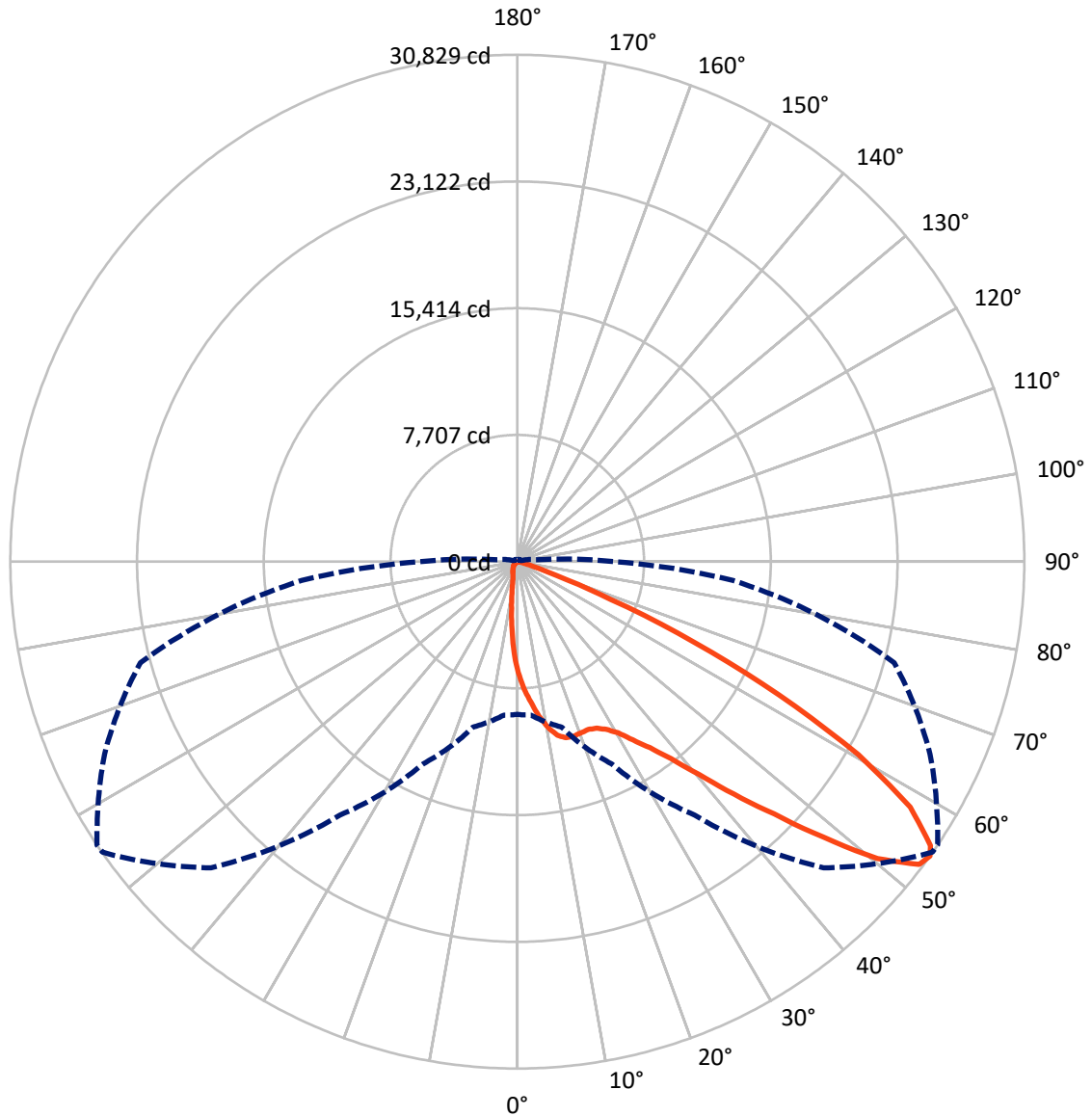
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	1430.7	0.0	1430.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	28824.3	0.0	28824.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	30255.0	0.0	30255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.0	2.0
10°-20°	1605.7	5.3
20°-30°	2781.0	9.2
30°-40°	4800.4	15.9
40°-50°	8170.4	27.0
50°-60°	8085.7	26.7
60°-70°	3690.5	12.2
70°-80°	473.9	1.6
80°-90°	53.4	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°	30255.0	100.0
0°-180°	30255.0	100.0

Coefficient of Utilization



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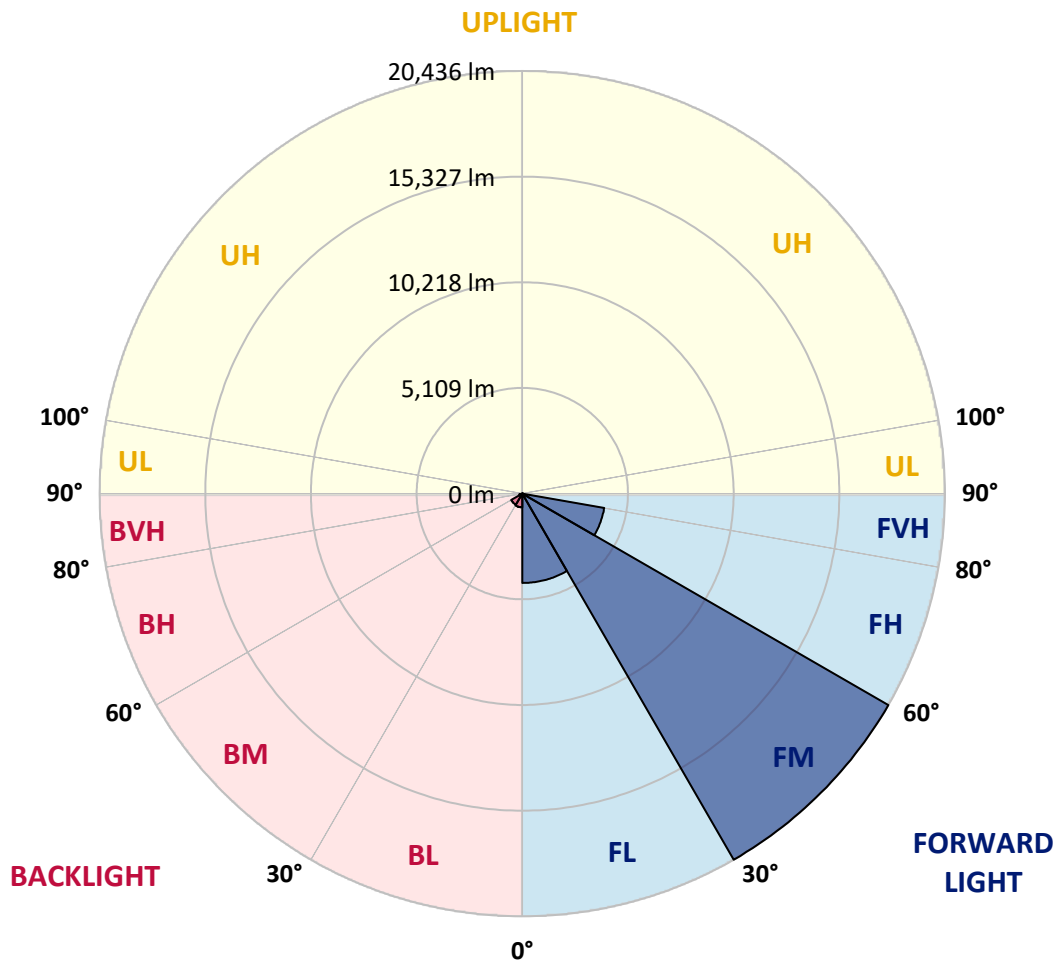
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4319.0	14.3			
FM	(30°-60°)	20436.5	67.5			
FH	(60°-80°)	4021.2	13.3			G2/5000
FVH	(80°-90°)	47.7	0.2			G1/100
BL	(0°-30°)	661.7	2.2	B2/1000		
BM	(30°-60°)	620.0	2.0	B1/1000		
BH	(60°-80°)	143.3	0.5	B1/500		G1/500
BVH	(80°-90°)	5.7	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°	6721.8	6721.8	6721.8	6721.8	6721.8	6721.8	6721.8	6721.8	6721.8	6721.8	6721.8
2.5°	8542.6	8483.4	8401.7	8338.5	8189.4	7975.1	7748.5	7748.5	7530.1	7226.0	6915.7
5°	9853.0	9814.3	9734.7	9571.4	9404.0	9103.9	8648.7	8569.1	8179.2	7628.1	7048.4
7.5°	10385.8	10404.2	10408.3	10365.4	10285.8	9989.8	9538.7	9483.6	8861.0	8122.1	7221.9
10°	9875.5	9965.3	10053.1	10230.7	10481.7	10553.2	10298.0	10240.9	9628.5	8622.2	7409.7
12.5°	9116.2	9165.2	9214.1	9493.8	9998.0	10575.6	10843.0	10841.0	10322.5	9120.2	7648.5
15°	8763.0	8805.9	8810.0	8934.5	9371.3	10212.3	11075.7	11106.4	11000.2	9734.7	7905.7
17.5°	8836.5	8871.2	8842.6	8873.3	9101.9	9812.2	11049.2	11151.3	11549.3	10324.6	8138.4
20°	9316.2	9383.6	9273.3	9187.6	9257.0	9706.1	10959.4	11102.3	11937.2	10900.2	8350.7
22.5°	10177.6	10214.3	10075.5	9840.8	9718.3	9928.6	10934.9	11075.7	12267.8	11371.7	8473.2
25°	11134.9	11122.7	10969.6	10706.3	10449.1	10377.6	11096.2	11222.7	12541.4	11796.3	8509.9
27.5°	12092.3	12129.0	11871.8	11545.2	11237.0	11051.3	11457.5	11551.4	12849.6	12280.1	8554.8
30°	13204.8	13145.6	12892.4	12518.9	12165.8	11906.5	12039.2	12065.7	13274.2	12921.0	8673.2
32.5°	14652.0	14488.7	14205.0	13551.8	13298.7	12859.8	12892.4	12925.1	13790.6	13555.9	8816.1
35°	16615.7	16607.5	16052.3	15172.5	14556.1	14011.0	13868.2	13894.7	14572.4	14498.9	9132.5
37.5°	18979.4	19012.1	18379.3	17493.4	16358.5	15493.0	15199.0	15203.1	15760.4	15801.2	9614.2
40°	20904.3	20990.0	20612.4	20014.3	18893.7	17540.3	17046.4	17001.5	17430.1	17379.1	10302.1
42.5°	21733.0	21812.7	21953.5	22161.7	21545.2	20428.7	19263.1	19324.4	19455.0	19097.8	11073.7
45°	21326.8	21453.4	22006.6	23292.5	23872.3	23496.7	22106.6	21892.3	21339.1	20965.5	11849.4
47.5°	19634.7	19942.9	20867.6	23008.8	25037.8	26307.5	25315.4	25031.7	23225.2	22329.1	12343.4
50°	16852.4	16870.8	18158.8	20896.1	24433.6	28081.3	28591.6	28379.3	24982.7	23094.5	12592.4
52.5°	12216.8	12618.9	13798.8	16968.8	21816.7	27811.8	30679.8	30592.0	26795.3	23486.5	12951.6
54°	9287.6	9365.2	10414.4	13559.9	18810.0	26331.9	30808.4	30828.8	27695.5	23723.2	13163.9
55°	7613.8	7428.1	8530.3	11551.4	16758.6	25023.5	30387.9	30485.9	28099.7	23845.7	13321.1
57.5°	3608.9	3610.9	4454.0	6093.1	10496.0	19430.5	27818.0	28165.0	28144.6	24056.0	13804.9
60°	1826.9	1839.2	2024.9	2812.8	5184.7	12916.9	23000.7	23827.4	25978.8	24086.6	13964.1
62.5°	1277.8	1263.5	1232.9	1353.3	2182.1	6564.6	17123.9	17842.4	22071.9	22921.0	13457.9
65°	1094.1	1063.5	977.8	959.4	1102.3	2614.8	10665.5	11837.1	16852.4	19846.9	12016.8
67.5°	934.9	922.6	845.1	798.1	779.8	1139.0	5503.2	6119.6	11518.7	14266.2	9101.9
70°	794.0	787.9	741.0	681.8	630.7	681.8	2041.2	2529.1	6419.7	7681.2	4294.8
72.5°	645.0	651.2	659.3	583.8	530.7	483.8	871.6	1014.5	2686.3	2745.5	1502.3
75°	565.4	559.3	559.3	508.3	442.9	359.3	479.7	516.4	822.6	763.4	349.1
77.5°	398.0	383.8	449.1	418.5	369.5	255.2	273.5	289.9	340.9	291.9	163.3
80°	275.6	275.6	287.8	375.6	332.7	185.8	167.4	179.6	202.1	173.5	93.9
82.5°	155.1	159.2	187.8	200.0	193.9	124.5	110.2	112.3	134.7	118.4	59.2
85°	18.4	30.6	108.2	106.1	79.6	55.1	61.2	63.3	83.7	73.5	34.7
87.5°	2.0	4.1	22.5	28.6	20.4	22.5	22.5	22.5	28.6	32.7	24.5
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°	6721.8	6721.8	6721.8	6721.8	6721.8	6721.8	6721.8	6721.8	6721.8	6721.8	6721.8
2.5°	6748.3	6593.2	6223.7	5795.1	5521.5	5076.6	4701.0	4429.5	4362.1	4231.5	4270.3
5°	6740.2	6417.6	5664.4	4868.3	4019.2	3386.4	2914.9	2543.4	2380.1	2271.9	2196.4
7.5°	6744.2	6240.1	5031.6	3764.0	2749.5	2129.0	1692.2	1465.6	1314.6	1251.3	1259.4
10°	6756.5	6040.0	4296.8	2788.3	1855.5	1375.8	1108.4	1000.2	949.2	941.0	939.0
12.5°	6785.1	5821.6	3594.6	2069.8	1298.2	1000.2	898.1	861.4	845.1	845.1	838.9
15°	6815.7	5580.7	3010.8	1539.1	1000.2	859.4	812.4	794.0	783.8	783.8	781.8
17.5°	6815.7	5303.1	2465.8	1194.1	861.4	790.0	753.2	728.7	720.6	720.6	718.5
20°	6772.8	4980.6	1982.0	961.4	781.8	724.6	687.9	661.4	651.2	647.1	645.0
22.5°	6623.8	4549.9	1577.9	826.7	716.5	667.5	620.5	589.9	581.8	577.7	579.7
25°	6358.5	4064.1	1249.2	726.7	657.3	598.1	557.3	534.8	526.6	526.6	528.7
27.5°	6084.9	3555.8	990.0	651.2	585.8	532.8	500.1	485.8	483.8	489.9	491.9
30°	5831.8	3045.5	802.2	589.9	522.6	477.6	455.2	451.1	451.1	453.2	455.2
32.5°	5550.1	2598.5	671.6	536.8	471.5	432.7	420.5	420.5	424.6	424.6	428.7
35°	5372.5	2214.7	589.9	485.8	432.7	400.1	391.9	394.0	400.1	408.2	412.3
37.5°	5276.6	1908.6	536.8	445.0	396.0	373.5	365.4	369.5	383.8	398.0	400.1
40°	5284.8	1677.9	494.0	410.3	367.4	342.9	336.8	349.1	363.3	377.6	379.7
42.5°	5374.6	1506.4	453.2	369.5	342.9	308.2	306.2	318.4	324.6	338.8	340.9
45°	5480.7	1381.9	410.3	326.6	298.0	267.4	269.4	279.6	287.8	310.3	314.4
47.5°	5513.4	1296.2	361.3	277.6	244.9	234.7	236.8	242.9	259.2	279.6	281.7
50°	5550.1	1243.1	314.4	234.7	208.2	206.2	208.2	212.3	222.5	230.7	228.6
52.5°	5707.3	1241.1	275.6	204.1	177.6	181.7	183.7	181.7	173.5	161.3	157.2
54°	5854.3	1247.2	257.2	189.8	163.3	169.4	167.4	157.2	136.8	124.5	118.4
55°	5972.7	1253.3	247.0	179.6	155.1	157.2	159.2	138.8	112.3	100.0	95.9
57.5°	6205.4	1239.0	222.5	157.2	136.8	128.6	126.6	91.9	61.2	53.1	49.0
60°	6089.0	1118.6	202.1	134.7	116.4	104.1	85.7	51.0	30.6	22.5	22.5
62.5°	5631.8	949.2	179.6	110.2	95.9	79.6	44.9	28.6	14.3	8.2	6.1
65°	5037.8	798.1	161.3	87.8	75.5	51.0	24.5	18.4	6.1	0.0	0.0
67.5°	3745.7	592.0	136.8	69.4	57.2	32.7	16.3	10.2	2.0	0.0	0.0
70°	1735.1	361.3	116.4	53.1	40.8	24.5	12.2	6.1	0.0	0.0	0.0
72.5°	498.1	226.6	95.9	38.8	28.6	20.4	10.2	4.1	2.0	0.0	0.0
75°	173.5	181.7	71.4	28.6	22.5	14.3	8.2	4.1	2.0	0.0	0.0
77.5°	104.1	147.0	44.9	24.5	18.4	12.2	8.2	4.1	2.0	2.0	0.0
80°	59.2	98.0	28.6	20.4	16.3	10.2	6.1	4.1	2.0	2.0	0.0
82.5°	32.7	46.9	22.5	18.4	14.3	10.2	6.1	4.1	2.0	2.0	2.0
85°	26.5	24.5	18.4	16.3	12.2	8.2	6.1	2.0	0.0	0.0	0.0
87.5°	20.4	16.3	16.3	16.3	12.2	8.2	6.1	2.0	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)