

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: STREETWORKS

Report Number: P324959

Luminaire Tested: **GAN-SA5B-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA 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: 18580 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

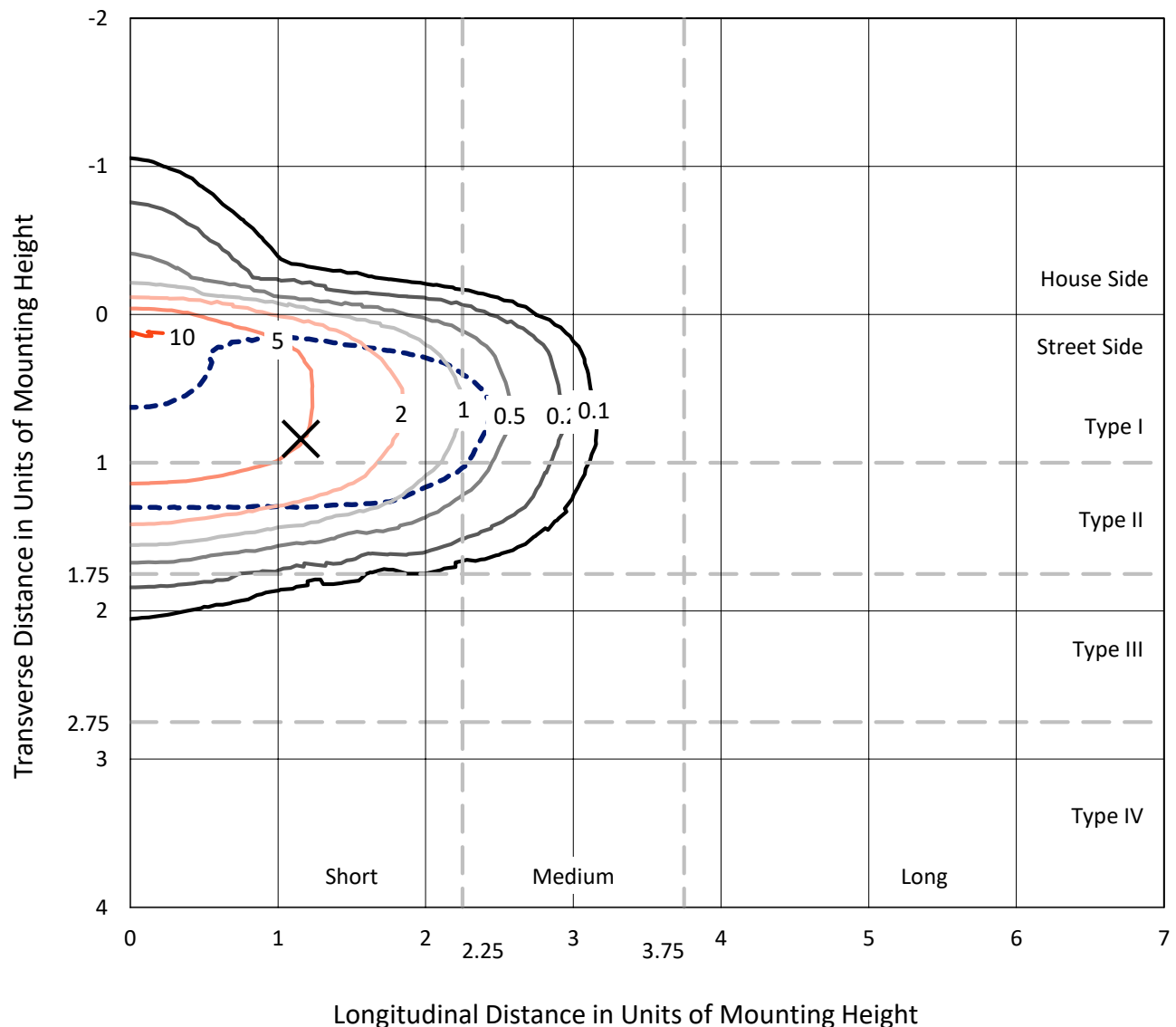
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

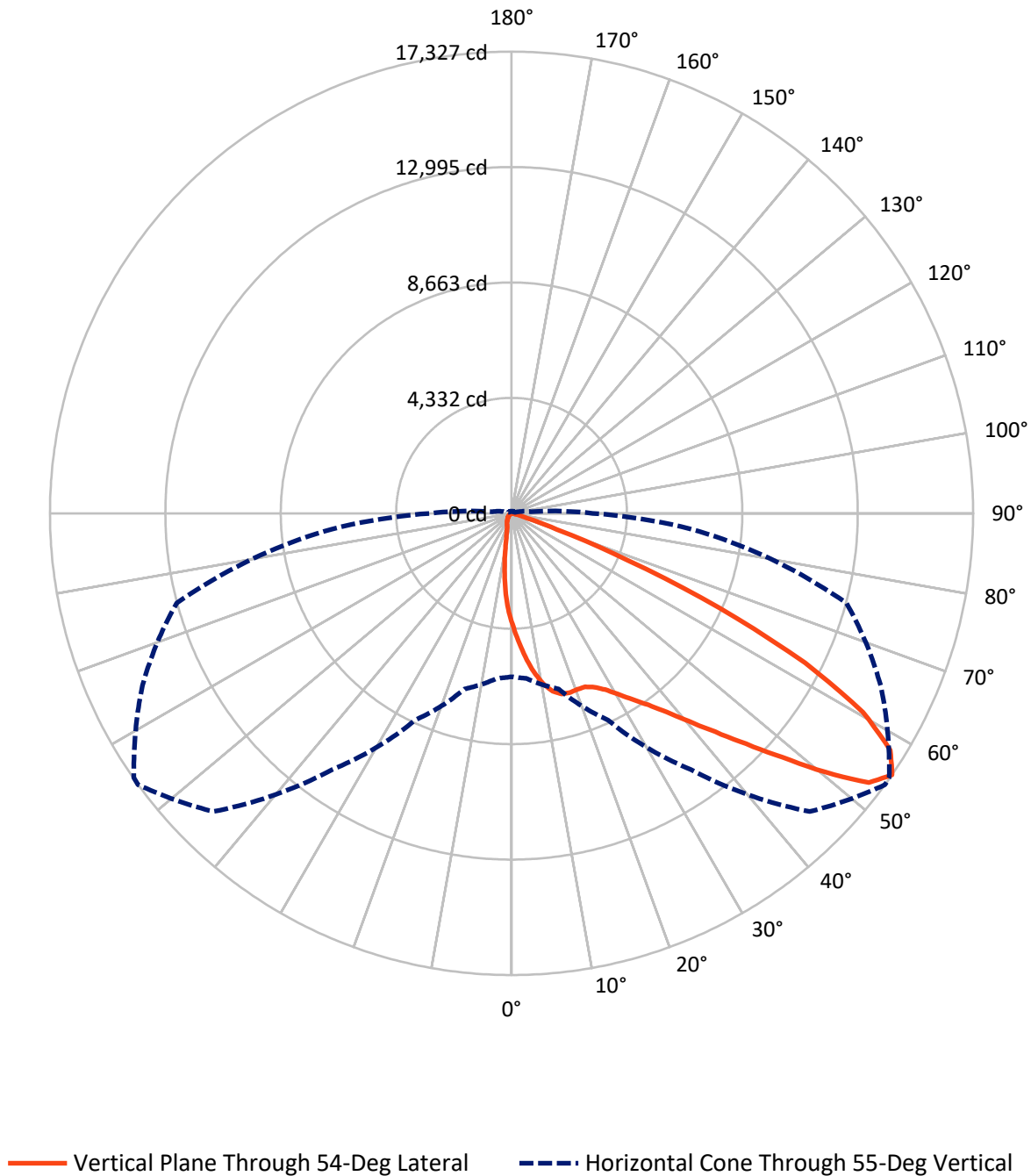
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	927.0	0.0	927.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	17653.0	0.0	17653.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	18580.0	0.0	18580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.2	2.1
10°-20°	1050.9	5.7
20°-30°	1794.3	9.7
30°-40°	2879.5	15.5
40°-50°	4601.5	24.8
50°-60°	4930.6	26.5
60°-70°	2531.5	13.6
70°-80°	383.5	2.1
80°-90°	25.0	0.1
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°	18580.0	100.0
0°-180°	18580.0	100.0

Coefficient of Utilization



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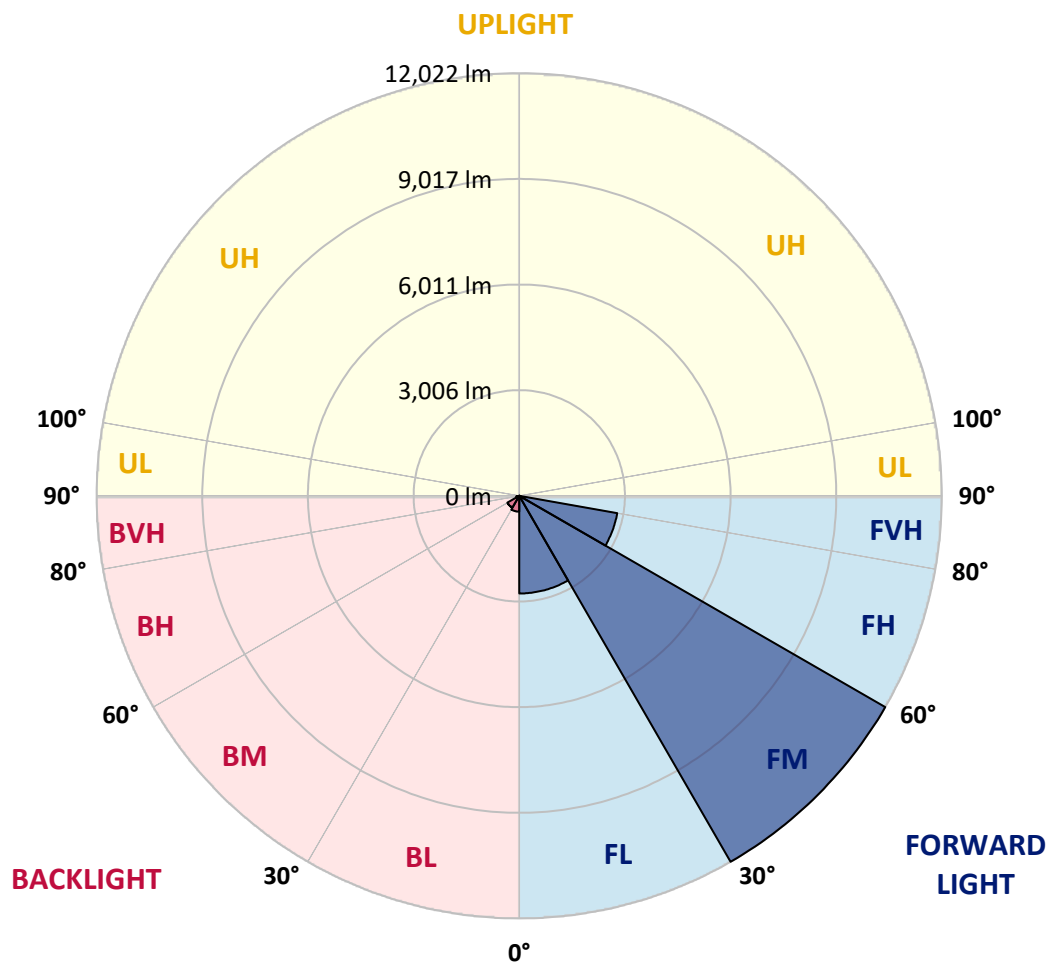
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2777.4	14.9			
FM	(30°-60°)	12022.1	64.7			
FH	(60°-80°)	2829.6	15.2			G2/5000
FVH	(80°-90°)	24.0	0.1			G1/100
BL	(0°-30°)	451.0	2.4	B1/500		
BM	(30°-60°)	389.5	2.1	B1/1000		
BH	(60°-80°)	85.4	0.5	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	54°	55°	65°	75°	85°
0°	4161.2	4161.2	4161.2	4161.2	4161.2	4161.2	4161.2	4161.2	4161.2	4161.2	4161.2
2.5°	5221.9	5144.1	5146.5	5111.2	4982.0	4880.9	4775.8	4750.9	4587.2	4415.5	4250.2
5°	6124.6	6067.6	6054.0	5985.8	5806.1	5615.9	5412.1	5364.8	5044.6	4693.2	4347.3
7.5°	6588.4	6589.2	6578.0	6553.1	6440.8	6256.2	6007.5	5957.7	5522.0	4994.9	4448.4
10°	6453.6	6484.1	6546.7	6629.3	6715.2	6691.9	6504.9	6460.0	5986.6	5314.2	4560.8
12.5°	6139.1	6143.1	6212.9	6348.5	6595.6	6849.2	6852.4	6837.1	6430.3	5648.0	4684.3
15°	5982.6	5997.8	6023.5	6111.0	6345.3	6751.3	7041.7	7063.4	6837.1	6002.7	4815.9
17.5°	6085.3	6107.0	6085.3	6095.7	6231.3	6596.4	7074.6	7130.0	7192.6	6353.3	4940.3
20°	6363.7	6383.8	6345.3	6302.7	6329.2	6551.5	7051.4	7126.0	7471.0	6664.6	5044.6
22.5°	6739.2	6747.3	6688.7	6618.9	6599.6	6703.9	7070.6	7147.7	7694.1	6946.3	5110.4
25°	7152.5	7159.7	7086.7	7006.4	6960.7	7003.2	7228.7	7286.5	7890.7	7215.1	5148.1
27.5°	7602.6	7609.0	7517.6	7418.9	7365.9	7367.5	7489.5	7551.3	8100.1	7521.6	5178.6
30°	8078.4	8075.2	7991.0	7853.8	7786.4	7784.7	7865.0	7927.6	8403.4	7914.7	5220.3
32.5°	8612.8	8606.4	8486.8	8316.7	8240.5	8251.7	8323.2	8359.3	8779.7	8333.6	5294.9
35°	9316.5	9298.1	9117.5	8906.5	8766.1	8762.1	8822.2	8851.1	9259.5	8840.7	5419.3
37.5°	10229.6	10212.8	9968.0	9661.5	9464.1	9390.3	9461.7	9498.6	9944.0	9491.4	5619.1
40°	11129.9	11113.0	10967.8	10687.0	10382.9	10205.5	10261.7	10301.0	10798.5	10281.0	5871.1
42.5°	11750.9	11765.4	11815.9	11839.2	11554.4	11182.1	11207.7	11248.7	11696.4	11125.1	6159.1
45°	11914.6	11945.9	12231.6	12792.4	12899.2	12608.7	12339.9	12362.4	12608.7	11969.2	6447.2
47.5°	11422.8	11480.5	12031.8	13074.9	13978.4	14183.8	13675.1	13645.4	13484.1	12652.0	6651.8
50°	10305.0	10358.0	11072.1	12615.1	14305.7	15687.5	15275.0	15187.6	14252.0	13060.4	6724.0
52.5°	8687.4	8751.6	9331.8	11167.6	13688.7	16358.2	16789.9	16716.9	14815.3	13092.5	6736.0
55°	6135.0	6212.9	6826.7	8559.1	11733.3	15824.7	17326.7	17305.1	15283.0	13007.5	6761.7
57.5°	3447.9	3504.0	4166.0	5486.7	8593.6	13783.4	16765.9	16909.5	15565.5	12859.8	6800.2
60°	1531.0	1546.2	1888.8	2731.3	5031.0	10533.7	15160.3	15402.6	15323.2	12662.5	6865.2
62.5°	848.9	836.1	836.1	1135.4	2186.5	6521.0	12362.4	12762.8	14288.9	12429.0	6868.4
65°	665.2	653.1	618.6	623.5	832.9	2894.2	8560.7	9272.4	12324.7	11744.5	6637.3
67.5°	564.1	553.6	519.1	505.5	517.5	954.8	4703.6	5442.6	9351.8	9965.6	5749.1
70°	476.6	469.4	451.7	434.9	404.4	471.8	1799.8	2302.0	5762.7	6629.3	3924.5
72.5°	383.5	380.3	386.8	372.3	335.4	314.5	615.4	745.4	2588.5	2958.4	1616.8
75°	330.6	329.0	332.2	317.7	276.0	219.1	312.9	341.8	730.2	723.8	327.4
77.5°	215.0	217.4	275.2	268.8	237.5	146.0	162.1	174.9	221.5	166.1	99.5
80°	137.2	135.6	139.6	223.1	213.4	111.5	81.0	85.1	106.7	81.8	48.1
82.5°	83.4	81.8	91.5	104.3	107.5	77.8	49.7	50.6	66.6	53.0	25.7
85°	7.2	9.6	55.4	51.4	36.9	24.1	24.1	25.7	35.3	31.3	14.4
87.5°	0.0	0.0	9.6	14.4	8.0	8.8	8.8	9.6	13.6	13.6	7.2
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°	4161.2	4161.2	4161.2	4161.2	4161.2	4161.2	4161.2	4161.2	4161.2	4161.2	4161.2
2.5°	4164.4	4080.9	3912.4	3750.4	3613.1	3480.8	3329.9	3180.7	3110.9	3082.8	3053.9
5°	4171.6	3999.9	3652.5	3302.6	2939.9	2613.4	2334.9	2049.3	1906.5	1843.9	1815.0
7.5°	4181.2	3919.7	3358.0	2770.6	2186.5	1743.6	1356.8	1108.1	1000.6	983.7	942.0
10°	4182.8	3822.6	3016.2	2183.3	1466.0	1051.1	808.8	680.4	633.1	625.1	611.4
12.5°	4186.0	3707.8	2636.6	1616.8	977.3	702.9	584.9	542.4	529.6	528.8	528.8
15°	4195.7	3587.5	2242.7	1165.1	702.1	556.9	513.5	496.7	491.9	494.3	493.5
17.5°	4195.7	3445.4	1855.9	868.2	567.3	500.7	476.6	465.4	463.8	466.2	467.0
20°	4165.2	3272.9	1501.3	675.6	503.1	464.6	442.9	432.5	428.5	430.1	430.9
22.5°	4092.2	3061.1	1212.4	559.3	460.6	431.7	408.4	392.4	385.9	386.8	386.8
25°	3978.2	2810.0	948.4	483.8	426.1	396.4	369.1	350.6	346.6	345.8	347.4
27.5°	3832.2	2532.3	755.0	426.1	385.1	357.1	329.8	314.5	311.3	312.1	312.9
30°	3688.6	2244.3	595.4	377.1	339.4	312.9	292.1	284.8	284.8	287.3	288.1
32.5°	3557.0	1967.5	471.0	334.6	298.5	274.4	262.4	261.6	265.6	267.2	268.0
35°	3443.8	1711.5	390.0	301.7	266.4	245.5	241.5	244.7	249.5	252.8	253.6
37.5°	3363.6	1482.8	341.0	274.4	241.5	224.7	223.9	230.3	236.7	243.9	245.5
40°	3329.9	1289.4	307.3	250.3	221.5	208.6	206.2	215.0	227.1	237.5	239.1
42.5°	3301.8	1131.4	278.4	227.1	205.4	187.0	186.2	197.4	211.8	222.3	224.7
45°	3277.7	1004.6	251.9	202.2	184.5	160.5	162.9	177.3	188.6	199.8	202.2
47.5°	3228.0	900.3	223.1	175.7	152.5	137.2	142.0	154.9	163.7	180.5	182.9
50°	3138.9	815.2	193.4	143.6	124.4	118.8	126.0	134.8	146.0	160.5	162.1
52.5°	3078.8	751.0	167.7	120.4	102.7	104.3	111.5	114.7	121.2	126.8	125.2
55°	3044.3	715.7	146.8	104.3	87.5	92.3	93.9	89.9	86.7	81.0	78.6
57.5°	3040.2	683.6	130.8	90.7	77.0	79.4	73.8	60.2	48.9	42.5	40.9
60°	3033.8	644.3	118.0	76.2	68.2	65.0	53.0	32.9	23.3	21.7	21.7
62.5°	2964.0	583.3	108.3	64.2	57.8	48.9	30.5	15.2	12.8	13.6	13.6
65°	2741.8	498.3	98.7	52.2	45.7	35.3	15.2	8.8	4.8	5.6	5.6
67.5°	2330.9	397.2	88.3	40.1	34.5	22.5	8.8	4.0	0.0	0.0	0.0
70°	1560.6	246.3	74.6	28.1	22.5	13.6	6.4	0.8	0.0	0.0	0.0
72.5°	598.6	133.2	60.2	16.9	14.4	9.6	4.0	0.0	0.0	0.0	0.0
75°	134.8	87.5	41.7	12.0	10.4	6.4	1.6	0.0	0.0	0.0	0.0
77.5°	51.4	63.4	24.1	8.0	7.2	4.0	0.0	0.0	0.0	0.0	0.0
80°	24.9	37.7	11.2	4.8	4.0	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	12.8	14.4	4.8	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.2	7.2	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.4	0.8	0.8	0.0	0.0	0.0	0.0	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)