

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: P324889

Luminaire Tested: **GAN-SA5C-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324889
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-SA5C-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 28939 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

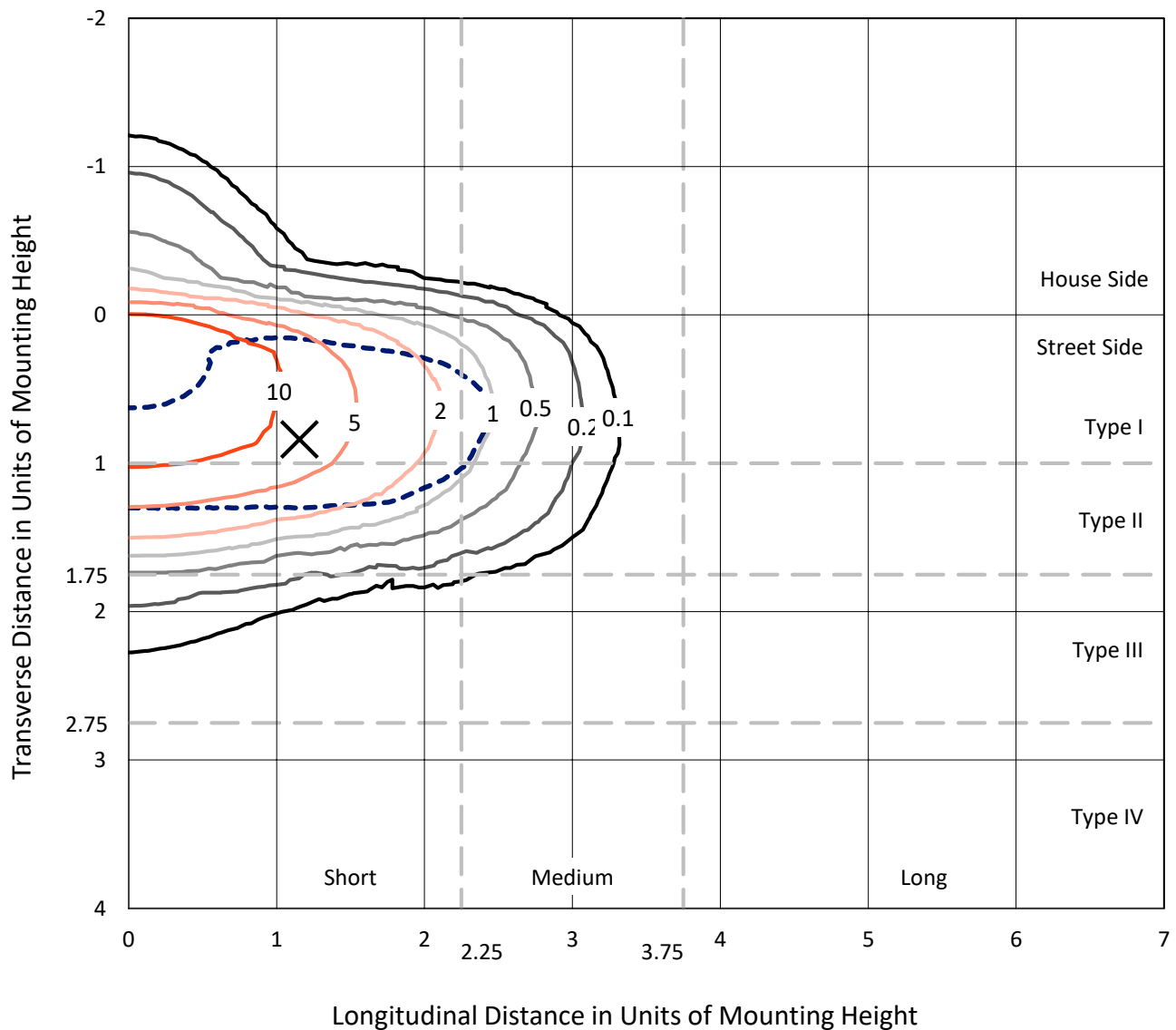
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

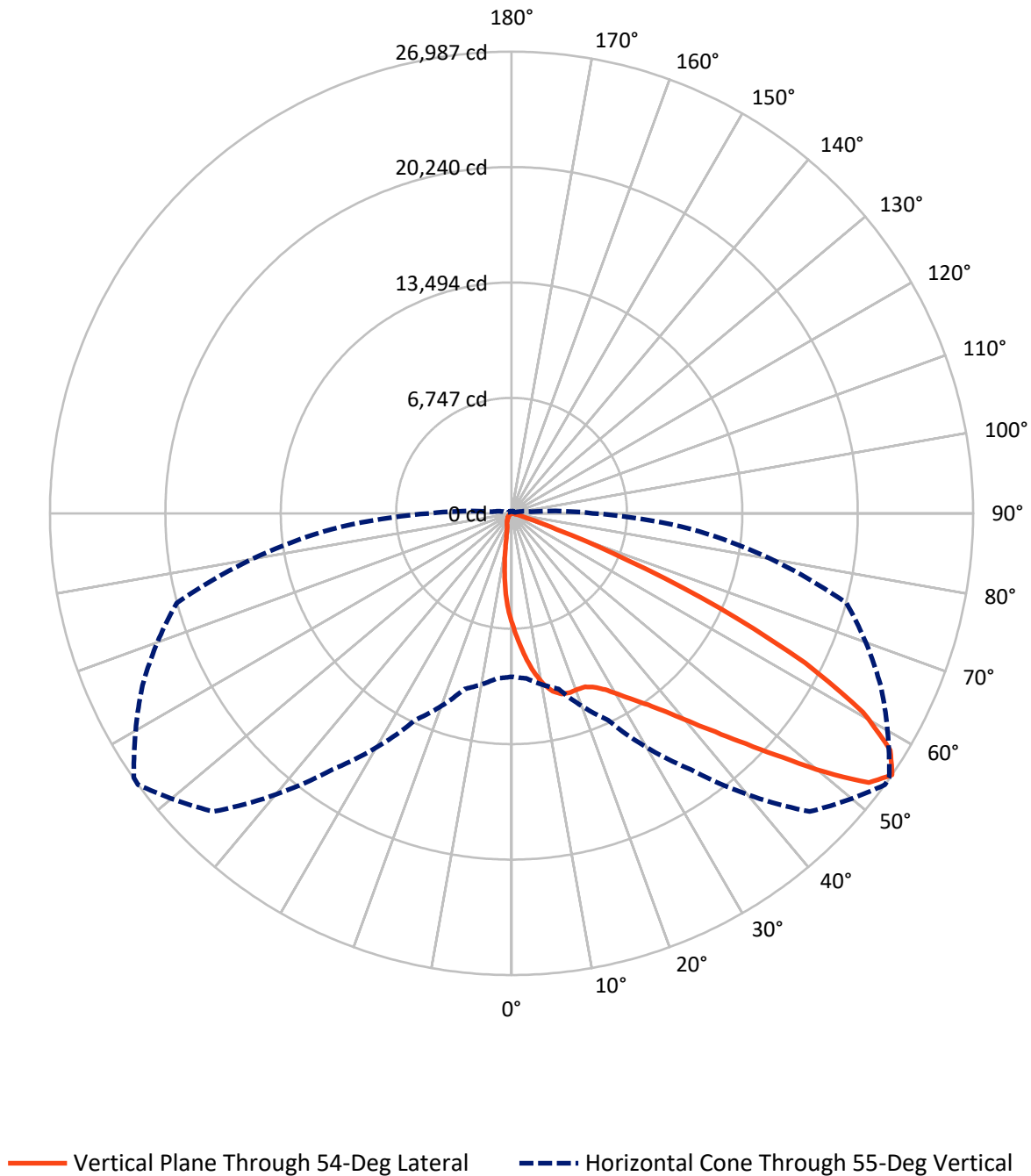
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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	1443.8	0.0	1443.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	27495.2	0.0	27495.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	28939.0	0.0	28939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.8	2.1
10°-20°	1636.9	5.7
20°-30°	2794.7	9.7
30°-40°	4485.0	15.5
40°-50°	7167.0	24.8
50°-60°	7679.6	26.5
60°-70°	3942.9	13.6
70°-80°	597.3	2.1
80°-90°	38.9	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°	28939.0	100.0
0°-180°	28939.0	100.0

Coefficient of Utilization



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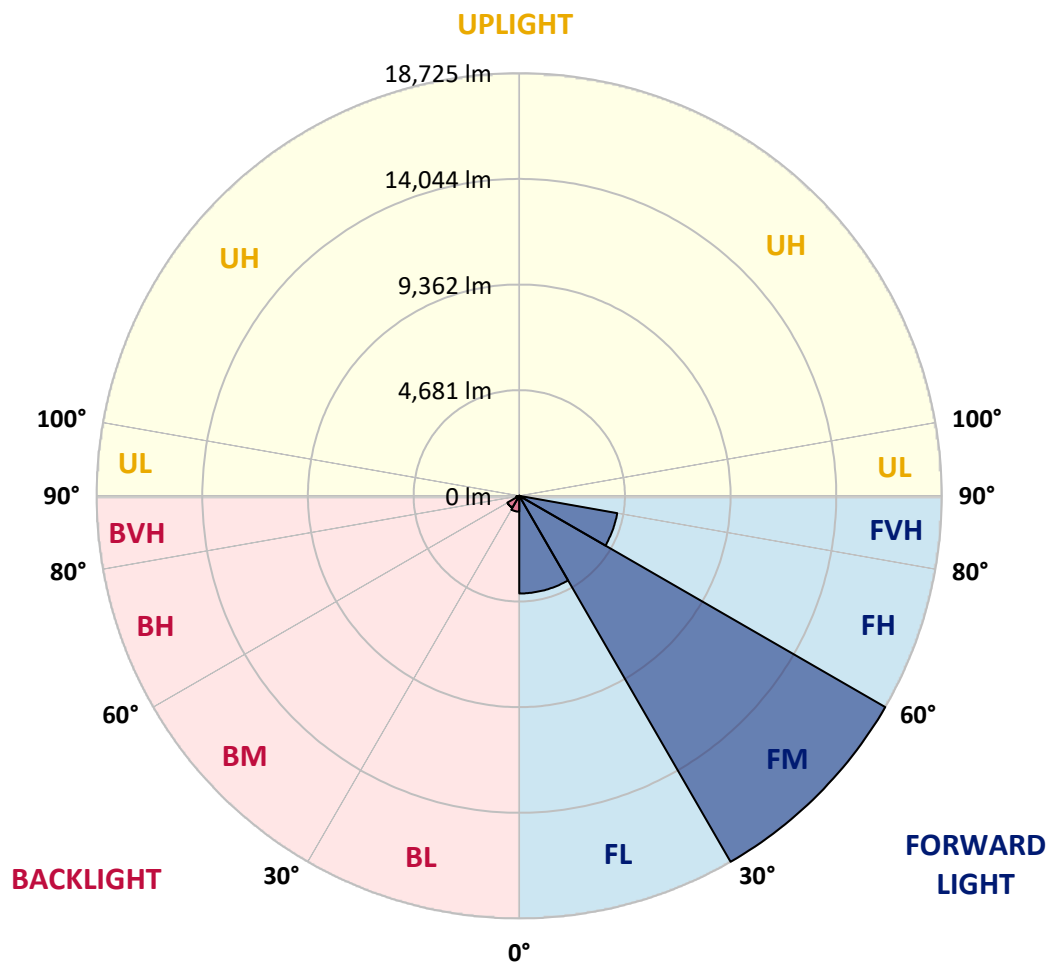
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4325.9	14.9			
FM	(30°-60°)	18724.8	64.7			
FH	(60°-80°)	4407.1	15.2			G2/5000
FVH	(80°-90°)	37.3	0.1			G1/100
BL	(0°-30°)	702.5	2.4	B2/1000		
BM	(30°-60°)	606.7	2.1	B1/1000		
BH	(60°-80°)	133.0	0.5	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	54°	55°	65°	75°	85°
0°	6481.2	6481.2	6481.2	6481.2	6481.2	6481.2	6481.2	6481.2	6481.2	6481.2	6481.2
2.5°	8133.3	8012.1	8015.9	7960.9	7759.7	7602.2	7438.5	7399.7	7144.8	6877.3	6619.9
5°	9539.3	9450.6	9429.3	9323.1	9043.2	8747.0	8429.5	8355.8	7857.1	7309.8	6771.1
7.5°	10261.7	10262.9	10245.4	10206.7	10031.7	9744.3	9356.8	9279.4	8600.7	7779.7	6928.6
10°	10051.7	10099.2	10196.7	10325.4	10459.1	10422.9	10131.7	10061.7	9324.3	8277.1	7103.5
12.5°	9561.8	9568.0	9676.8	9888.0	10272.9	10667.8	10672.8	10649.1	10015.5	8797.0	7296.0
15°	9318.1	9341.8	9381.8	9518.1	9883.0	10515.3	10967.8	11001.5	10649.1	9349.3	7501.0
17.5°	9478.1	9511.8	9478.1	9494.3	9705.5	10274.1	11019.0	11105.2	11202.7	9895.5	7694.7
20°	9911.7	9943.0	9883.0	9816.7	9858.0	10204.2	10982.8	11099.0	11636.4	10380.4	7857.1
22.5°	10496.6	10509.1	10417.9	10309.1	10279.1	10441.6	11012.7	11132.7	11983.8	10819.0	7959.6
25°	11140.2	11151.5	11037.7	10912.8	10841.5	10907.8	11258.9	11348.9	12290.0	11237.7	8018.4
27.5°	11841.3	11851.3	11708.9	11555.1	11472.7	11475.2	11665.1	11761.3	12616.2	11715.1	8065.9
30°	12582.4	12577.4	12446.2	12232.5	12127.5	12125.0	12250.0	12347.5	13088.6	12327.5	8130.8
32.5°	13414.8	13404.8	13218.5	12953.6	12834.9	12852.4	12963.6	13019.8	13674.7	12979.8	8247.1
35°	14510.8	14482.0	14200.8	13872.2	13653.5	13647.2	13740.9	13785.9	14422.1	13769.7	8440.8
37.5°	15933.0	15906.7	15525.6	15048.2	14740.7	14625.8	14737.0	14794.5	15488.1	14783.2	8752.0
40°	17335.2	17309.0	17082.8	16645.3	16171.7	15895.5	15983.0	16044.2	16819.1	16013.0	9144.4
42.5°	18302.5	18325.0	18403.7	18440.0	17996.3	17416.4	17456.4	17520.2	18217.5	17327.7	9593.0
45°	18557.5	18606.2	19051.1	19924.7	20090.9	19638.5	19219.8	19254.8	19638.5	18642.4	10041.7
47.5°	17791.4	17881.3	18739.9	20364.6	21771.8	22091.7	21299.4	21253.2	21002.0	19706.0	10360.4
50°	16050.5	16133.0	17245.2	19648.5	22281.7	24433.8	23791.4	23655.2	22198.0	20342.1	10472.9
52.5°	13531.0	13631.0	14534.5	17393.9	21320.6	25478.5	26150.9	26037.2	23075.3	20392.1	10491.6
55°	9555.5	9676.8	10632.8	13331.0	18275.0	24647.5	26987.0	26953.2	23803.9	20259.6	10531.6
57.5°	5370.2	5457.6	6488.7	8545.8	13384.8	21468.1	26113.4	26337.1	24243.8	20029.7	10591.6
60°	2384.5	2408.3	2941.9	4254.1	7835.9	16406.6	23612.7	23990.1	23866.4	19722.2	10692.8
62.5°	1322.2	1302.2	1302.2	1768.4	3405.6	10156.7	19254.8	19878.4	22255.4	19358.5	10697.8
65°	1036.0	1017.3	963.6	971.1	1297.2	4507.8	13333.5	14442.0	19196.1	18292.5	10337.9
67.5°	878.6	862.3	808.6	787.3	806.1	1487.2	7326.0	8477.0	14565.8	15521.8	8954.4
70°	742.3	731.1	703.6	677.4	629.9	734.8	2803.2	3585.5	8975.7	10325.4	6112.5
72.5°	597.4	592.4	602.4	579.9	522.4	489.9	958.6	1161.0	4031.7	4607.8	2518.2
75°	514.9	512.4	517.4	494.9	429.9	341.2	487.4	532.4	1137.3	1127.3	509.9
77.5°	334.9	338.7	428.7	418.7	369.9	227.5	252.4	272.4	344.9	258.7	155.0
80°	213.7	211.2	217.5	347.4	332.4	173.7	126.2	132.5	166.2	127.5	75.0
82.5°	130.0	127.5	142.5	162.5	167.5	121.2	77.5	78.7	103.7	82.5	40.0
85°	11.2	15.0	86.2	80.0	57.5	37.5	37.5	40.0	55.0	48.7	22.5
87.5°	0.0	0.0	15.0	22.5	12.5	13.7	13.7	15.0	21.2	21.2	11.2
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°	6481.2	6481.2	6481.2	6481.2	6481.2	6481.2	6481.2	6481.2	6481.2	6481.2	6481.2
2.5°	6486.2	6356.2	6093.8	5841.3	5627.6	5421.4	5186.4	4954.0	4845.3	4801.5	4756.5
5°	6497.4	6230.0	5688.8	5143.9	4579.1	4070.4	3636.8	3191.8	2969.4	2871.9	2826.9
7.5°	6512.4	6105.0	5230.2	4315.4	3405.6	2715.7	2113.3	1725.9	1558.4	1532.2	1467.2
10°	6514.9	5953.8	4697.8	3400.6	2283.3	1637.2	1259.7	1059.8	986.0	973.6	952.3
12.5°	6519.9	5775.1	4106.7	2518.2	1522.2	1094.8	911.1	844.8	824.8	823.6	823.6
15°	6534.9	5587.6	3493.0	1814.6	1093.5	867.3	799.8	773.6	766.1	769.8	768.6
17.5°	6534.9	5366.4	2890.7	1352.2	883.6	779.8	742.3	724.9	722.4	726.1	727.4
20°	6487.4	5097.7	2338.3	1052.3	783.6	723.6	689.9	673.6	667.4	669.9	671.1
22.5°	6373.7	4767.8	1888.4	871.1	717.4	672.4	636.1	611.1	601.1	602.4	602.4
25°	6196.2	4376.6	1477.2	753.6	663.6	617.4	574.9	546.1	539.9	538.6	541.1
27.5°	5968.8	3944.2	1176.0	663.6	599.9	556.1	513.6	489.9	484.9	486.2	487.4
30°	5745.1	3495.5	927.3	587.4	528.6	487.4	454.9	443.7	443.7	447.4	448.7
32.5°	5540.1	3064.4	733.6	521.1	464.9	427.4	408.7	407.4	413.7	416.2	417.4
35°	5363.9	2665.7	607.4	469.9	414.9	382.4	376.2	381.2	388.7	393.7	394.9
37.5°	5238.9	2309.5	531.1	427.4	376.2	349.9	348.7	358.7	368.7	379.9	382.4
40°	5186.4	2008.3	478.7	389.9	344.9	324.9	321.2	334.9	353.7	369.9	372.4
42.5°	5142.7	1762.1	433.7	353.7	319.9	291.2	289.9	307.4	329.9	346.2	349.9
45°	5105.2	1564.7	392.4	314.9	287.4	249.9	253.7	276.2	293.7	311.2	314.9
47.5°	5027.7	1402.2	347.4	273.7	237.5	213.7	221.2	241.2	254.9	281.2	284.9
50°	4889.0	1269.7	301.2	223.7	193.7	185.0	196.2	210.0	227.5	249.9	252.4
52.5°	4795.3	1169.8	261.2	187.5	160.0	162.5	173.7	178.7	188.7	197.5	195.0
55°	4741.5	1114.8	228.7	162.5	136.2	143.7	146.2	140.0	135.0	126.2	122.5
57.5°	4735.3	1064.8	203.7	141.2	120.0	123.7	115.0	93.7	76.2	66.2	63.7
60°	4725.3	1003.5	183.7	118.7	106.2	101.2	82.5	51.2	36.2	33.7	33.7
62.5°	4616.6	908.6	168.7	100.0	90.0	76.2	47.5	23.7	20.0	21.2	21.2
65°	4270.4	776.1	153.7	81.2	71.2	55.0	23.7	13.7	7.5	8.7	8.7
67.5°	3630.5	618.6	137.5	62.5	53.7	35.0	13.7	6.2	0.0	0.0	0.0
70°	2430.8	383.7	116.2	43.7	35.0	21.2	10.0	1.2	0.0	0.0	0.0
72.5°	932.3	207.5	93.7	26.2	22.5	15.0	6.2	0.0	0.0	0.0	0.0
75°	210.0	136.2	65.0	18.7	16.2	10.0	2.5	0.0	0.0	0.0	0.0
77.5°	80.0	98.7	37.5	12.5	11.2	6.2	0.0	0.0	0.0	0.0	0.0
80°	38.7	58.7	17.5	7.5	6.2	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	20.0	22.5	7.5	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.2	11.2	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	3.7	1.2	1.2	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)