

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: P324743

Luminaire Tested: **GAN-SA9D-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324743
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-SA9D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 47489 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

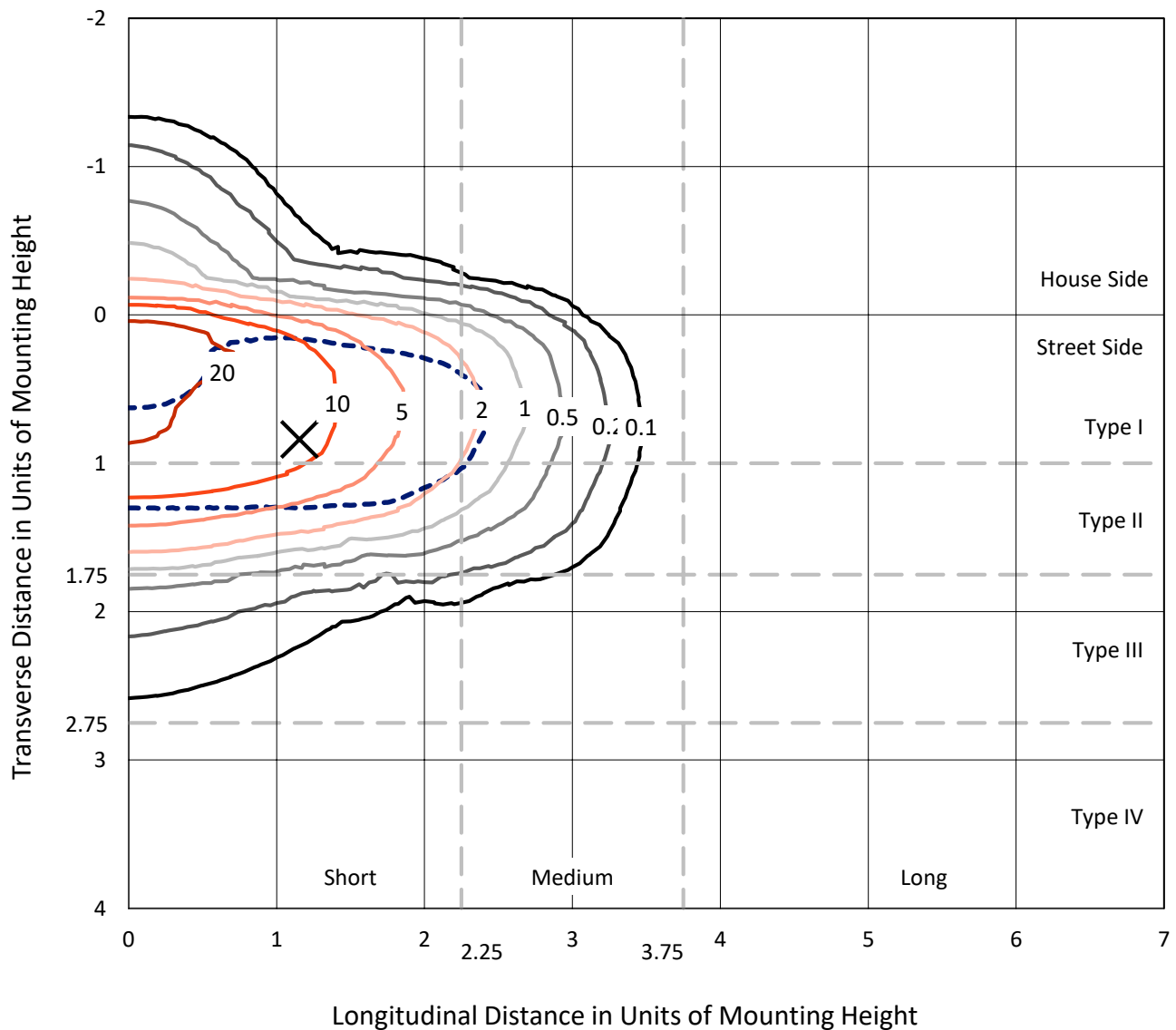
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

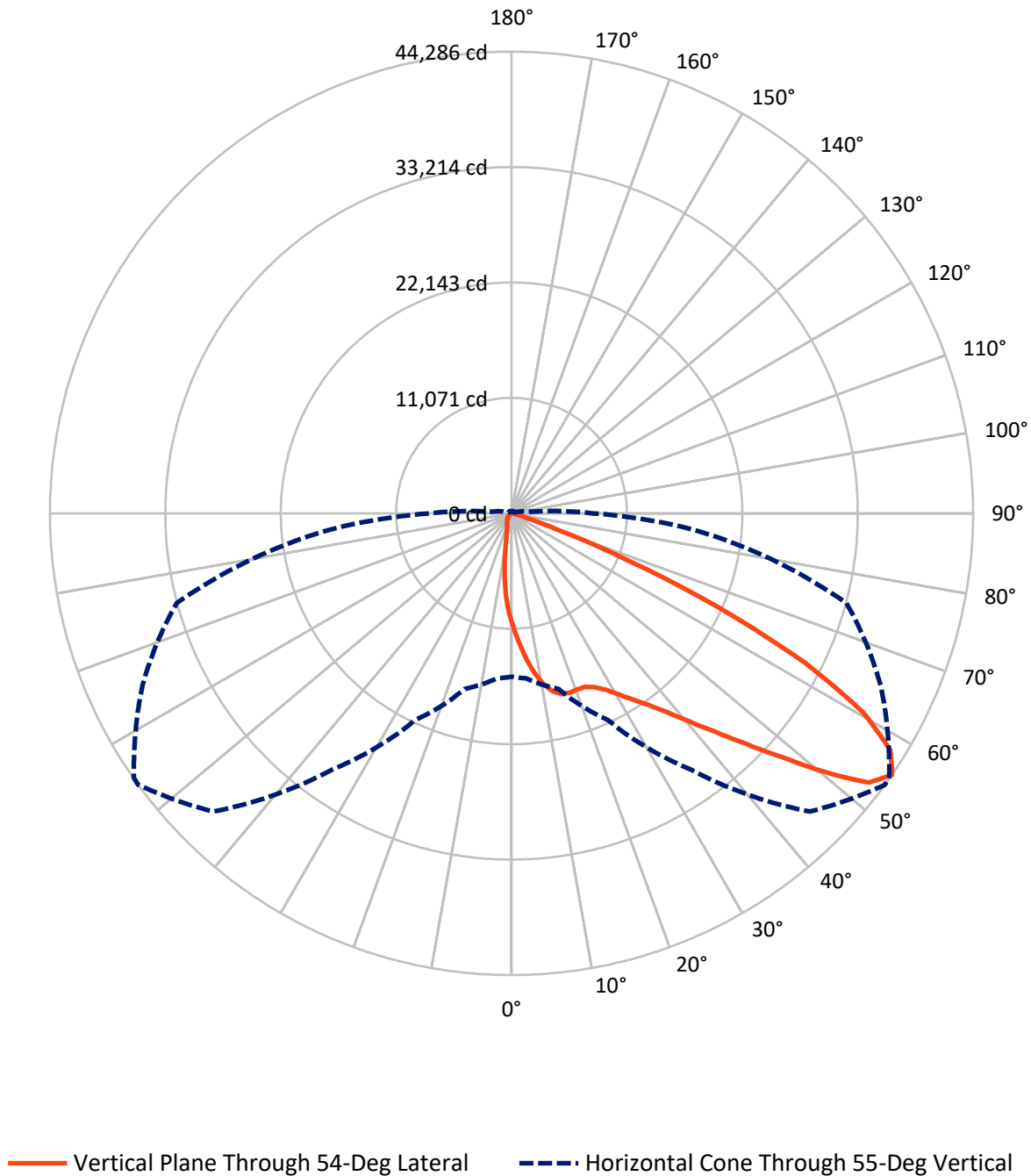
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.1 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	2369.4	0.0	2369.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	45119.6	0.0	45119.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	47489.0	0.0	47489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	979.4	2.1
10°-20°	2686.1	5.7
20°-30°	4586.0	9.7
30°-40°	7359.8	15.5
40°-50°	11761.0	24.8
50°-60°	12602.3	26.5
60°-70°	6470.4	13.6
70°-80°	980.1	2.1
80°-90°	63.8	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°	47489.0	100.0
0°-180°	47489.0	100.0

Coefficient of Utilization



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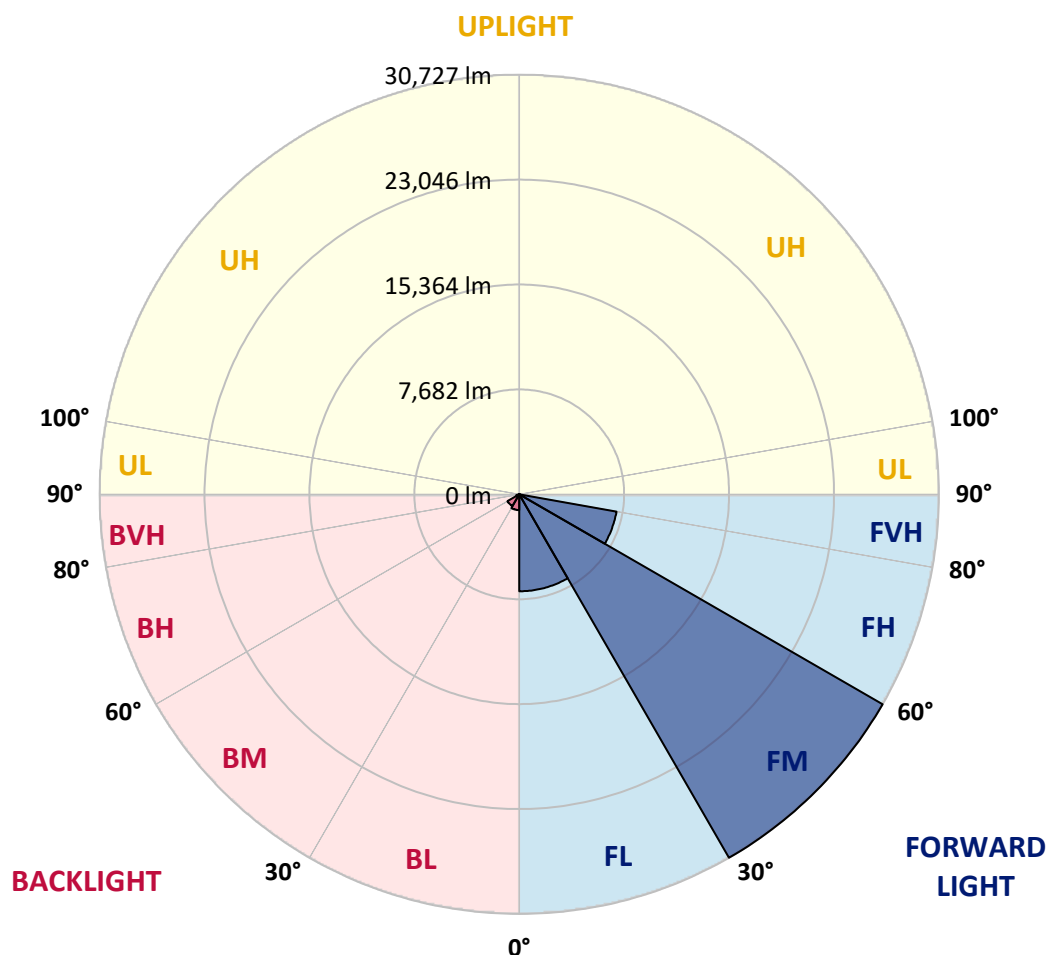
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7098.8	14.9			
FM	(30°-60°)	30727.5	64.7			
FH	(60°-80°)	7232.1	15.2			G3/7500
FVH	(80°-90°)	61.3	0.1			G1/100
BL	(0°-30°)	1152.8	2.4	B3/2500		
BM	(30°-60°)	995.6	2.1	B1/1000		
BH	(60°-80°)	218.4	0.5	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10635.6	10635.6	10635.6	10635.6	10635.6	10635.6	10635.6	10635.6	10635.6	10635.6	10635.6
2.5°	13346.8	13147.9	13154.1	13063.8	12733.6	12475.2	12206.6	12143.0	11724.6	11285.7	10863.3
5°	15654.0	15508.4	15473.5	15299.2	14839.8	14353.8	13832.9	13711.9	12893.6	11995.3	11111.4
7.5°	16839.4	16841.5	16812.7	16749.2	16462.1	15990.4	15354.6	15227.4	14113.8	12766.4	11369.8
10°	16494.9	16572.8	16732.8	16944.0	17163.4	17104.0	16626.1	16511.3	15301.3	13582.7	11656.9
12.5°	15690.9	15701.2	15879.6	16226.2	16857.9	17505.9	17514.1	17475.2	16435.4	14435.8	11972.8
15°	15291.0	15330.0	15395.6	15619.2	16218.0	17255.7	17998.1	18053.5	17475.2	15342.3	12309.1
17.5°	15553.5	15608.9	15553.5	15580.2	15926.8	16859.9	18082.2	18223.7	18383.7	16238.5	12627.0
20°	16265.2	16316.4	16218.0	16109.3	16177.0	16745.1	18022.7	18213.5	19095.3	17034.2	12893.6
22.5°	17225.0	17245.5	17095.8	16917.3	16868.1	17134.7	18072.0	18268.8	19665.5	17754.1	13061.8
25°	18281.1	18299.6	18113.0	17907.9	17791.0	17899.7	18476.0	18623.6	20167.9	18441.1	13158.2
27.5°	19431.7	19448.1	19214.3	18962.0	18826.7	18830.8	19142.5	19300.4	20703.2	19224.5	13236.1
30°	20647.8	20639.6	20424.3	20073.6	19901.3	19897.2	20102.3	20262.2	21478.4	20229.4	13342.7
32.5°	22013.7	21997.3	21691.7	21256.9	21062.1	21090.8	21273.3	21365.6	22440.2	21300.0	13533.5
35°	23812.2	23765.1	23303.6	22764.3	22405.4	22395.1	22548.9	22622.8	23666.6	22596.1	13851.3
37.5°	26146.1	26103.0	25477.5	24694.1	24189.6	24000.9	24183.4	24277.8	25416.0	24259.3	14362.0
40°	28447.1	28404.1	28032.9	27315.1	26537.8	26084.6	26228.1	26328.6	27600.1	26277.3	15006.0
42.5°	30034.5	30071.4	30200.6	30260.1	29532.0	28580.4	28646.1	28750.7	29895.0	28434.8	15742.2
45°	30452.8	30532.8	31262.9	32696.5	32969.2	32226.8	31539.8	31597.2	32226.8	30592.3	16478.5
47.5°	29195.7	29343.3	30752.3	33418.4	35727.6	36252.6	34952.4	34876.5	34464.3	32337.6	17001.4
50°	26338.9	26474.2	28299.5	32243.2	36564.3	40095.9	39041.7	38818.2	36426.9	33381.4	17186.0
52.5°	22204.4	22368.5	23851.2	28543.5	34987.2	41810.4	42913.7	42727.1	37866.6	33463.5	17216.8
55°	15680.7	15879.6	17448.5	21876.3	29989.4	40446.6	44285.7	44230.4	39062.3	33246.1	17282.4
57.5°	8812.4	8956.0	10647.9	14023.6	21964.4	35229.2	42852.2	43219.3	39784.1	32868.7	17380.8
60°	3913.0	3952.0	4827.7	6981.0	12858.7	26923.4	38748.5	39367.8	39164.8	32364.2	17546.9
62.5°	2169.8	2137.0	2137.0	2901.9	5588.5	16667.1	31597.2	32620.6	36521.3	31767.4	17555.1
65°	1700.1	1669.4	1581.2	1593.5	2128.8	7397.4	21880.4	23699.4	31500.8	30018.1	16964.5
67.5°	1441.7	1415.1	1326.9	1292.0	1322.8	2440.5	12022.0	13910.8	23902.5	25471.4	14694.2
70°	1218.2	1199.7	1154.6	1111.6	1033.6	1205.9	4600.0	5883.8	14729.1	16944.0	10030.6
72.5°	980.3	972.1	988.5	951.6	857.2	803.9	1573.0	1905.2	6616.0	7561.4	4132.4
75°	844.9	840.8	849.0	812.1	705.5	559.9	799.8	873.7	1866.3	1849.9	836.7
77.5°	549.6	555.8	703.4	687.0	607.0	373.3	414.3	447.1	566.0	424.5	254.3
80°	350.7	346.6	356.8	570.1	545.5	285.1	207.1	217.4	272.8	209.2	123.1
82.5°	213.3	209.2	233.8	266.6	274.8	198.9	127.2	129.2	170.2	135.4	65.6
85°	18.5	24.6	141.5	131.3	94.3	61.5	61.5	65.6	90.2	80.0	36.9
87.5°	0.0	0.0	24.6	36.9	20.5	22.6	22.6	24.6	34.9	34.9	18.5
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°	10635.6	10635.6	10635.6	10635.6	10635.6	10635.6	10635.6	10635.6	10635.6	10635.6	10635.6
2.5°	10643.8	10430.5	9999.9	9585.6	9234.9	8896.5	8511.0	8129.5	7951.1	7879.3	7805.5
5°	10662.3	10223.4	9335.4	8441.2	7514.3	6679.6	5967.9	5237.8	4872.8	4712.8	4639.0
7.5°	10686.9	10018.3	8582.7	7081.5	5588.5	4456.5	3468.0	2832.2	2557.4	2514.3	2407.7
10°	10691.0	9770.2	7709.1	5580.3	3746.9	2686.6	2067.2	1739.1	1618.1	1597.6	1562.7
12.5°	10699.2	9476.9	6739.0	4132.4	2497.9	1796.5	1495.1	1386.4	1353.6	1351.5	1351.5
15°	10723.8	9169.3	5732.1	2977.8	1794.5	1423.3	1312.5	1269.5	1257.2	1263.3	1261.3
17.5°	10723.8	8806.3	4743.6	2219.0	1449.9	1279.7	1218.2	1189.5	1185.4	1191.5	1193.6
20°	10645.9	8365.4	3837.1	1726.8	1285.9	1187.4	1132.1	1105.4	1095.1	1099.2	1101.3
22.5°	10459.3	7823.9	3098.8	1429.4	1177.2	1103.3	1043.9	1002.9	986.5	988.5	988.5
25°	10168.0	7182.0	2424.1	1236.7	1089.0	1013.1	943.4	896.2	886.0	883.9	888.0
27.5°	9794.8	6472.4	1929.8	1089.0	984.4	912.6	842.9	803.9	795.7	797.8	799.8
30°	9427.7	5736.2	1521.7	963.9	867.5	799.8	746.5	728.0	728.0	734.2	736.2
32.5°	9091.4	5028.6	1203.8	855.2	762.9	701.4	670.6	668.6	678.8	682.9	685.0
35°	8802.2	4374.4	996.7	771.1	680.9	627.6	617.3	625.5	637.8	646.0	648.1
37.5°	8597.1	3789.9	871.6	701.4	617.3	574.2	572.2	588.6	605.0	623.5	627.6
40°	8511.0	3295.7	785.5	639.9	566.0	533.2	527.1	549.6	580.4	607.0	611.1
42.5°	8439.2	2891.7	711.6	580.4	525.0	477.8	475.8	504.5	541.4	568.1	574.2
45°	8377.7	2567.6	644.0	516.8	471.7	410.2	416.3	453.2	481.9	510.7	516.8
47.5°	8250.5	2301.0	570.1	449.1	389.7	350.7	363.0	395.8	418.4	461.4	467.6
50°	8022.9	2083.6	494.3	367.1	317.9	303.5	322.0	344.5	373.3	410.2	414.3
52.5°	7869.1	1919.6	428.6	307.6	262.5	266.6	285.1	293.3	309.7	324.0	319.9
55°	7780.9	1829.3	375.3	266.6	223.5	235.8	239.9	229.7	221.5	207.1	201.0
57.5°	7770.6	1747.3	334.3	231.7	196.9	203.0	188.7	153.8	125.1	108.7	104.6
60°	7754.2	1646.8	301.5	194.8	174.3	166.1	135.4	84.1	59.5	55.4	55.4
62.5°	7575.8	1491.0	276.9	164.1	147.7	125.1	77.9	39.0	32.8	34.9	34.9
65°	7007.7	1273.6	252.3	133.3	116.9	90.2	39.0	22.6	12.3	14.4	14.4
67.5°	5957.7	1015.2	225.6	102.5	88.2	57.4	22.6	10.3	0.0	0.0	0.0
70°	3988.9	629.6	190.7	71.8	57.4	34.9	16.4	2.1	0.0	0.0	0.0
72.5°	1529.9	340.4	153.8	43.1	36.9	24.6	10.3	0.0	0.0	0.0	0.0
75°	344.5	223.5	106.6	30.8	26.7	16.4	4.1	0.0	0.0	0.0	0.0
77.5°	131.3	162.0	61.5	20.5	18.5	10.3	0.0	0.0	0.0	0.0	0.0
80°	63.6	96.4	28.7	12.3	10.3	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	32.8	36.9	12.3	6.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.5	18.5	6.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	6.2	2.1	2.1	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)