

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: P321263

Luminaire Tested: **GAN-SA9D-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50990 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

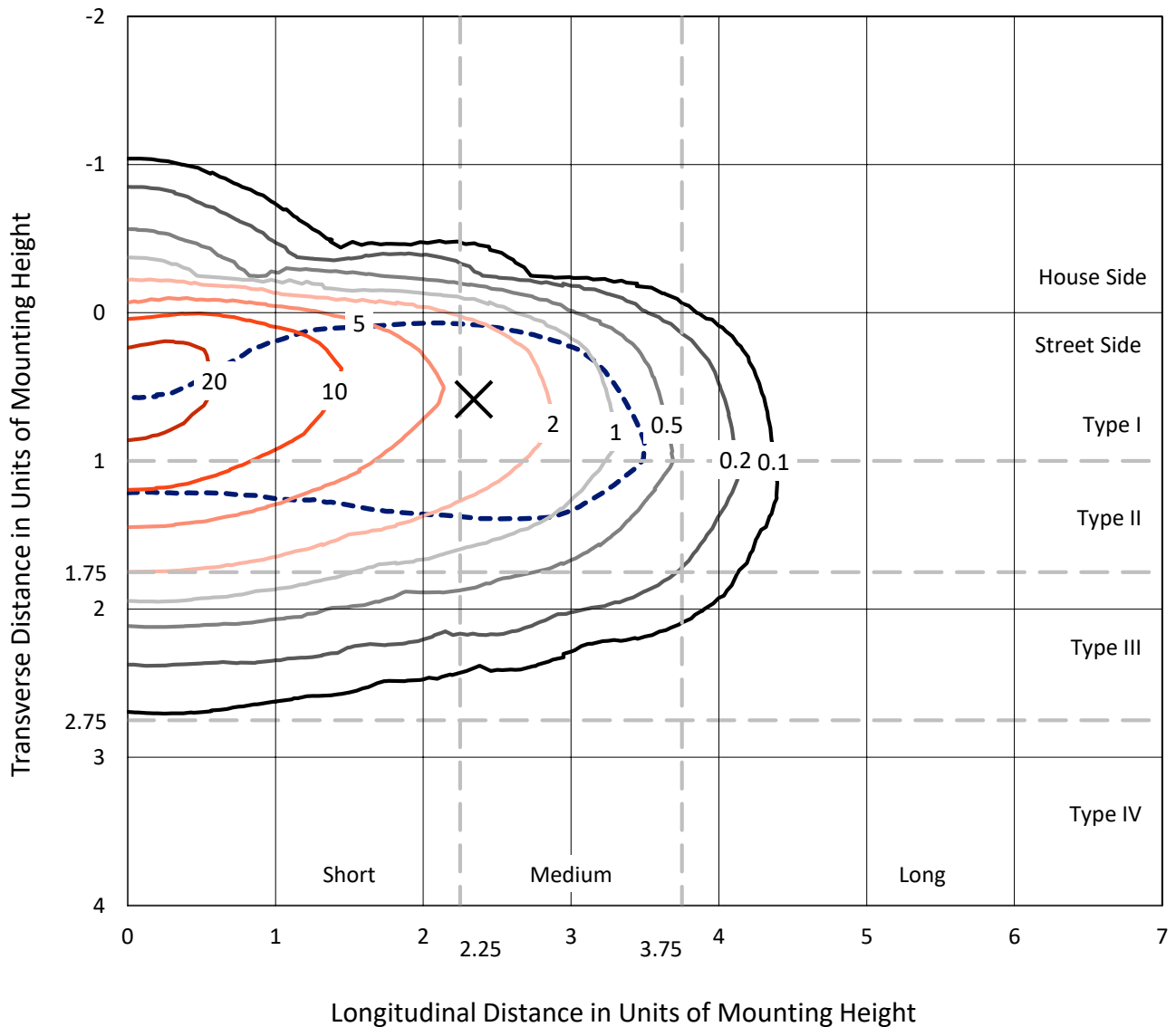
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

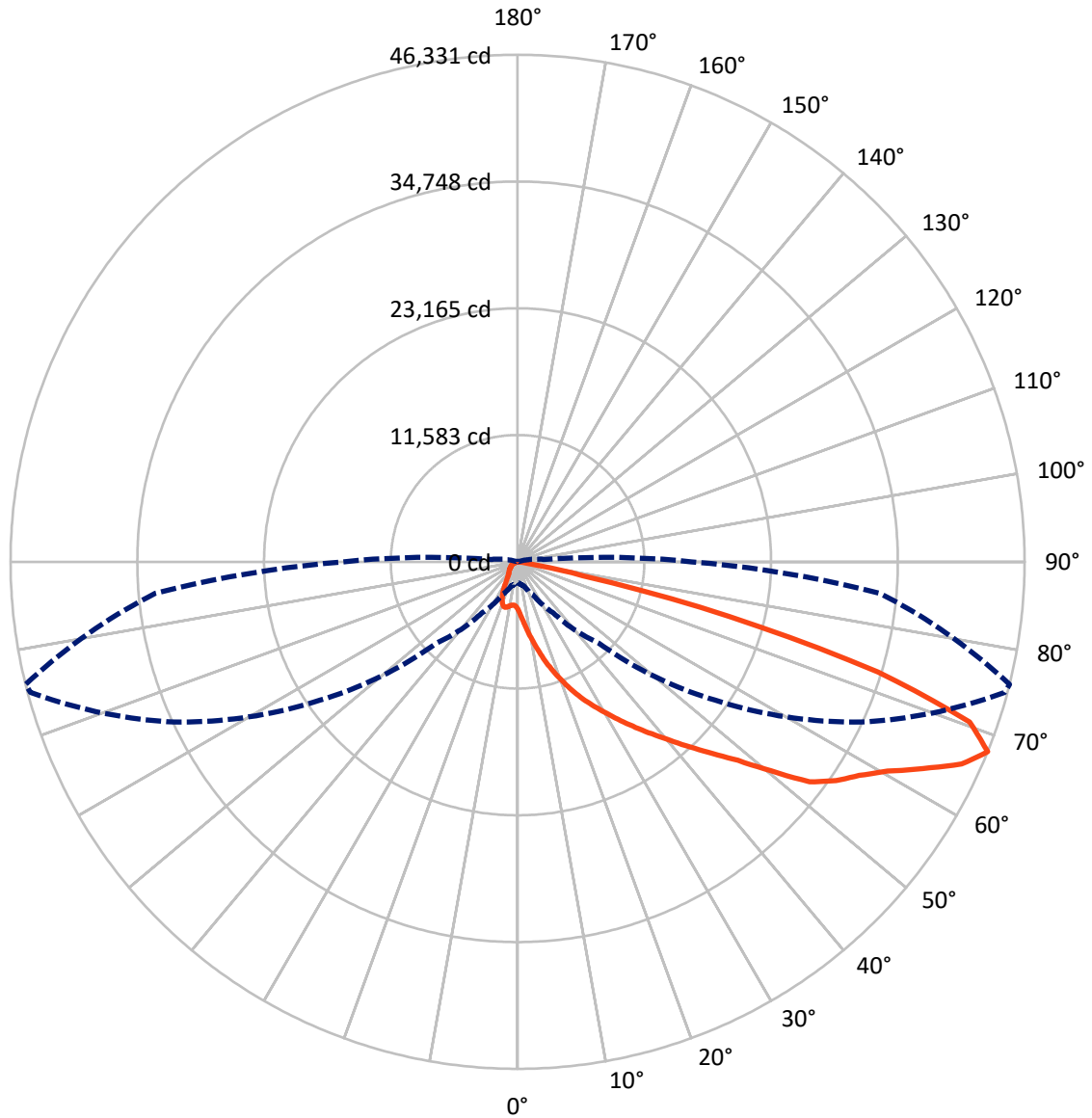
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2532.0	0.0	2532.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	48458.0	0.0	48458.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	50990.0	0.0	50990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.9	1.1
10°-20°	2132.2	4.2
20°-30°	4338.2	8.5
30°-40°	7529.8	14.8
40°-50°	10638.6	20.9
50°-60°	12064.7	23.7
60°-70°	10006.5	19.6
70°-80°	3624.6	7.1
80°-90°	117.5	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°	50990.0	100.0
0°-180°	50990.0	100.0

Coefficient of Utilization

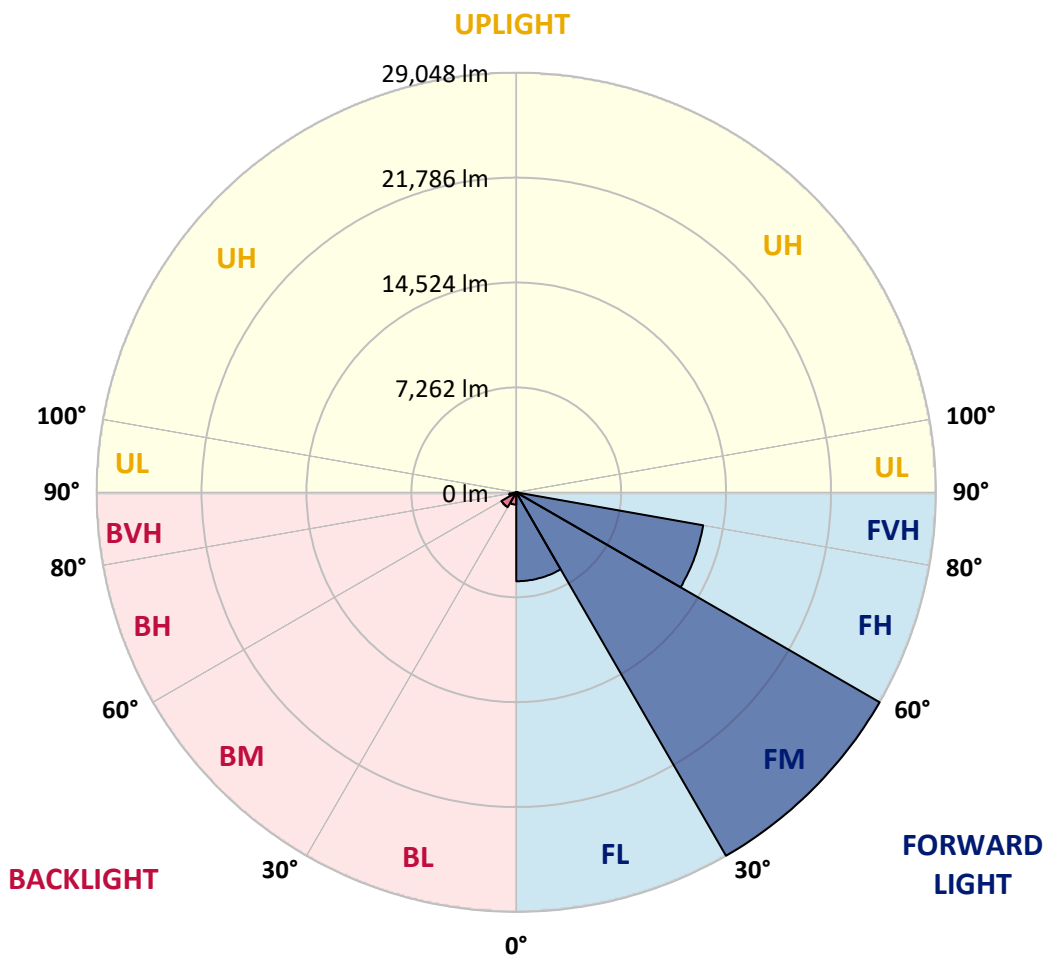


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6154.3	12.1			
FM (30°-60°)	29048.0	57.0			
FH (60°-80°)	13141.8	25.8			G5
FVH (80°-90°)	113.8	0.2			G2/225
BL (0°-30°)	853.9	1.7	B2/1000		
BM (30°-60°)	1185.1	2.3	B2/2500		
BH (60°-80°)	489.3	1.0	B1/500		G1/500
BVH (80°-90°)	3.7	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-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4325.4	4325.4	4325.4	4325.4	4325.4	4325.4	4325.4	4325.4	4325.4	4325.4	4325.4
2.5°	6456.9	6311.6	6345.2	6251.3	6081.5	5733.0	5435.8	5154.3	4825.9	4814.7	4544.4
5°	8706.7	8583.8	8568.2	8378.3	8070.0	7477.9	6901.5	6244.6	5511.8	5458.2	4884.0
7.5°	10748.8	10650.5	10614.7	10389.1	9814.9	9238.5	8487.8	7522.6	6376.4	6278.1	5342.0
10°	12317.2	12270.3	12279.2	12118.4	11626.8	11090.6	10105.3	8874.3	7357.3	7205.3	5891.6
12.5°	13505.8	13517.0	13597.4	13499.1	13224.3	12826.6	11774.3	10315.3	8443.1	8235.3	6519.4
15°	14379.4	14435.2	14582.7	14705.6	14685.5	14341.4	13376.2	11778.8	9595.9	9365.8	7218.7
17.5°	14944.6	15007.2	15221.7	15494.2	15744.5	15664.0	14922.3	13190.8	10762.2	10496.3	7967.2
20°	15440.6	15514.3	15744.5	16104.2	16571.1	16671.7	16184.6	14560.3	11926.2	11602.2	8740.2
22.5°	16515.3	16513.0	16653.8	16863.8	17308.4	17567.6	17259.3	15831.6	13076.8	12739.5	9528.9
25°	18459.0	18385.3	18336.2	18170.8	18269.1	18430.0	18258.0	17020.2	14234.1	13892.3	10328.7
27.5°	20769.2	20813.9	20416.2	19971.6	19627.5	19462.2	19180.7	18121.7	15346.8	14971.4	11110.7
30°	23206.7	23220.1	22751.0	22183.5	21426.1	20798.3	20311.2	19174.0	16490.7	16081.8	11870.4
32.5°	25405.2	25318.1	24853.3	24080.3	23124.1	22418.1	21406.0	20349.2	17701.6	17306.2	12714.9
35°	27147.9	27045.1	26479.8	25776.1	24784.1	24073.6	22856.0	21522.1	18975.1	18588.6	13561.6
37.5°	28421.4	28300.7	27719.8	26995.9	26140.2	25726.9	24538.3	22797.9	20364.8	19949.3	14453.1
40°	28863.7	28758.7	28394.6	27865.1	27176.9	27083.1	26323.5	24265.7	21877.4	21435.0	15463.0
42.5°	28600.1	28497.3	28367.8	28189.0	27903.0	27992.4	28008.0	25939.2	23557.5	23121.8	16577.8
45°	27554.5	27462.9	27597.0	27858.4	28213.6	28656.0	29545.2	27737.7	25434.2	24969.5	17867.0
47.5°	26015.1	25948.1	26319.0	26971.4	28010.3	29230.2	30950.5	29627.8	27541.1	27109.9	19475.6
50°	23825.6	23814.4	24556.2	25747.0	27344.5	29507.2	32402.7	31777.2	30467.9	30014.4	21712.0
52.5°	20416.2	20438.5	21897.5	23803.3	26176.0	29319.5	33336.6	34538.6	33872.8	33401.4	23649.1
55°	17169.9	17303.9	18338.4	21086.5	24384.2	28622.5	33658.4	35827.8	35751.8	35305.0	24726.0
57.5°	13990.6	14234.1	15230.6	17797.7	21767.9	27016.1	33481.9	36386.3	37150.4	36808.6	26146.9
60°	10545.5	10657.2	11805.6	14205.1	18409.9	24084.8	32201.7	36690.2	39062.9	38826.1	28209.1
62.5°	6709.3	6988.6	8007.4	10322.0	14334.7	20014.0	30043.4	36685.7	41455.7	41585.3	30870.1
65°	3534.5	3860.7	4401.4	6396.5	9850.6	15467.4	26797.1	36341.6	44391.5	44572.5	32950.1
67.5°	1905.8	1999.6	2285.6	3320.0	5712.9	10478.4	22027.1	34643.6	46091.7	46330.8	33240.6
70°	1394.1	1445.5	1552.8	1836.5	2875.4	6086.0	16072.9	30794.1	43900.0	43810.6	29534.0
72.5°	1070.2	1150.6	1231.0	1345.0	1653.3	3248.5	10007.0	24113.8	35027.9	34438.1	22076.2
75°	844.5	857.9	971.9	1074.7	1240.0	1849.9	4443.8	14044.2	21379.1	19982.8	11448.1
77.5°	674.7	683.7	750.7	840.1	996.5	1215.4	1376.3	5525.2	6825.5	6090.5	2484.4
80°	399.9	422.3	558.6	647.9	826.7	766.3	502.7	1199.8	1065.7	965.2	417.8
82.5°	223.4	241.3	315.0	511.6	576.4	366.4	250.2	324.0	250.2	243.5	118.4
85°	0.0	11.2	203.3	317.3	234.6	80.4	105.0	107.2	73.7	69.3	46.9
87.5°	0.0	0.0	62.6	60.3	8.9	13.4	24.6	35.7	29.0	29.0	24.6
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°	4325.4	4325.4	4325.4	4325.4	4325.4	4325.4	4325.4	4325.4	4325.4	4325.4	4325.4
2.5°	4410.3	4289.7	4061.8	3838.4	3650.7	3496.5	3358.0	3302.2	3257.5	3250.8	3215.0
5°	4606.9	4363.4	3927.7	3570.3	3331.2	3161.4	3016.2	2926.8	2857.6	2830.7	2806.2
7.5°	4904.1	4535.4	3909.9	3498.8	3212.8	2926.8	2658.7	2368.3	2187.3	2118.0	2077.8
10°	5266.0	4763.3	3976.9	3478.7	2978.2	2375.0	1930.4	1561.7	1412.0	1362.9	1349.5
12.5°	5688.3	5047.1	4093.1	3353.5	2477.7	1686.8	1331.6	1206.5	1173.0	1157.3	1157.3
15°	6173.1	5357.6	4175.7	2991.6	1832.1	1275.7	1152.9	1094.8	1059.0	1038.9	1041.1
17.5°	6669.1	5661.5	4135.5	2466.6	1351.7	1135.0	1043.4	980.8	931.7	911.6	907.1
20°	7169.6	5943.0	3912.1	1836.5	1143.9	1030.0	927.2	857.9	808.8	788.7	784.2
22.5°	7687.9	6182.1	3518.9	1347.2	1027.7	913.8	813.3	744.0	697.1	679.2	670.3
25°	8192.8	6376.4	2969.3	1090.3	918.3	804.3	708.2	643.5	601.0	583.1	580.9
27.5°	8664.3	6499.3	2332.5	962.9	822.2	706.0	618.9	560.8	525.0	511.6	509.4
30°	9088.8	6510.5	1724.8	869.1	737.3	621.1	540.7	489.3	458.0	444.6	440.1
32.5°	9517.7	6416.6	1255.6	784.2	659.1	547.4	469.2	429.0	406.6	395.5	395.5
35°	9922.1	6199.9	978.6	710.5	583.1	475.9	413.3	384.3	370.9	359.7	359.7
37.5°	10317.6	5889.4	831.1	645.7	511.6	415.6	364.2	346.3	335.1	324.0	324.0
40°	10719.7	5498.4	755.2	585.4	453.5	368.6	324.0	308.3	297.1	288.2	286.0
42.5°	11213.5	5047.1	706.0	529.5	402.2	326.2	286.0	268.1	259.2	250.2	245.8
45°	11785.5	4658.3	665.8	473.7	359.7	290.4	248.0	230.1	216.7	205.5	203.3
47.5°	12609.9	4376.8	612.2	413.3	319.5	252.5	214.5	194.4	174.3	163.1	160.9
50°	13662.2	4144.5	542.9	359.7	279.3	214.5	178.7	154.2	136.3	125.1	125.1
52.5°	14185.0	3840.6	480.4	312.8	234.6	181.0	145.2	116.2	107.2	96.1	96.1
55°	14395.0	3608.2	417.8	265.9	194.4	149.7	113.9	89.4	82.7	76.0	73.7
57.5°	14984.8	3541.2	364.2	225.7	160.9	118.4	87.1	67.0	62.6	53.6	53.6
60°	15934.4	3574.7	315.0	192.1	129.6	91.6	64.8	51.4	46.9	38.0	38.0
62.5°	16959.9	3532.3	265.9	165.3	100.5	67.0	44.7	38.0	38.0	22.3	20.1
65°	17156.5	3145.8	227.9	136.3	78.2	49.2	29.0	24.6	33.5	4.5	0.0
67.5°	15923.2	2439.8	196.6	105.0	58.1	38.0	22.3	11.2	29.0	0.0	0.0
70°	12732.8	1550.5	158.6	76.0	44.7	31.3	17.9	4.5	22.3	0.0	0.0
72.5°	9003.9	900.4	125.1	53.6	38.0	24.6	13.4	0.0	13.4	0.0	0.0
75°	4553.3	480.4	78.2	40.2	29.0	17.9	8.9	0.0	2.2	0.0	0.0
77.5°	985.3	223.4	49.2	29.0	20.1	11.2	4.5	0.0	0.0	0.0	0.0
80°	214.5	98.3	31.3	17.9	11.2	6.7	0.0	0.0	0.0	0.0	0.0
82.5°	78.2	51.4	15.6	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.4	26.8	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.3	8.9	2.2	2.2	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)