

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: P324773

Luminaire Tested: **GAN-SA9C-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324773
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-SA9C-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 47142 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

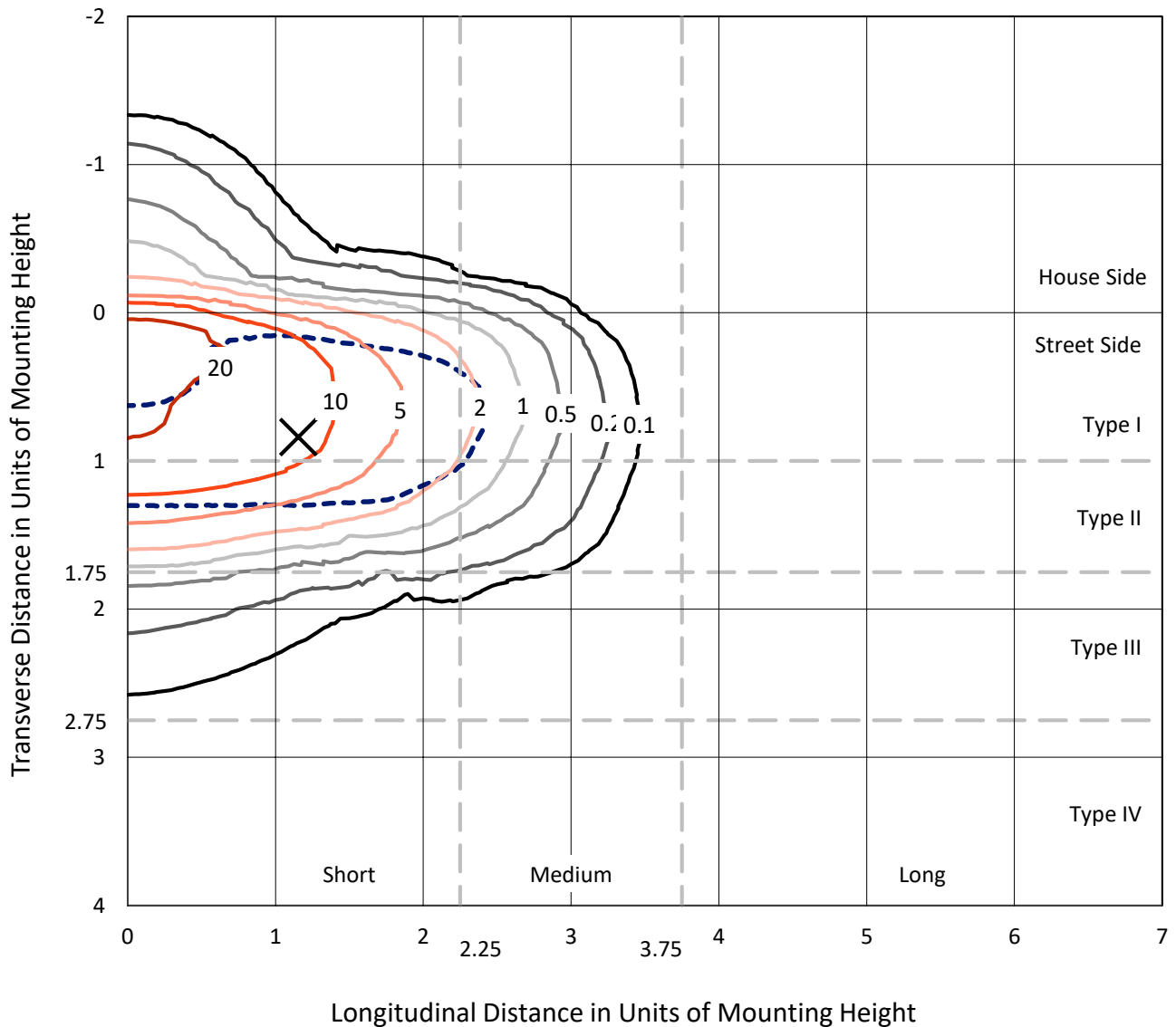
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

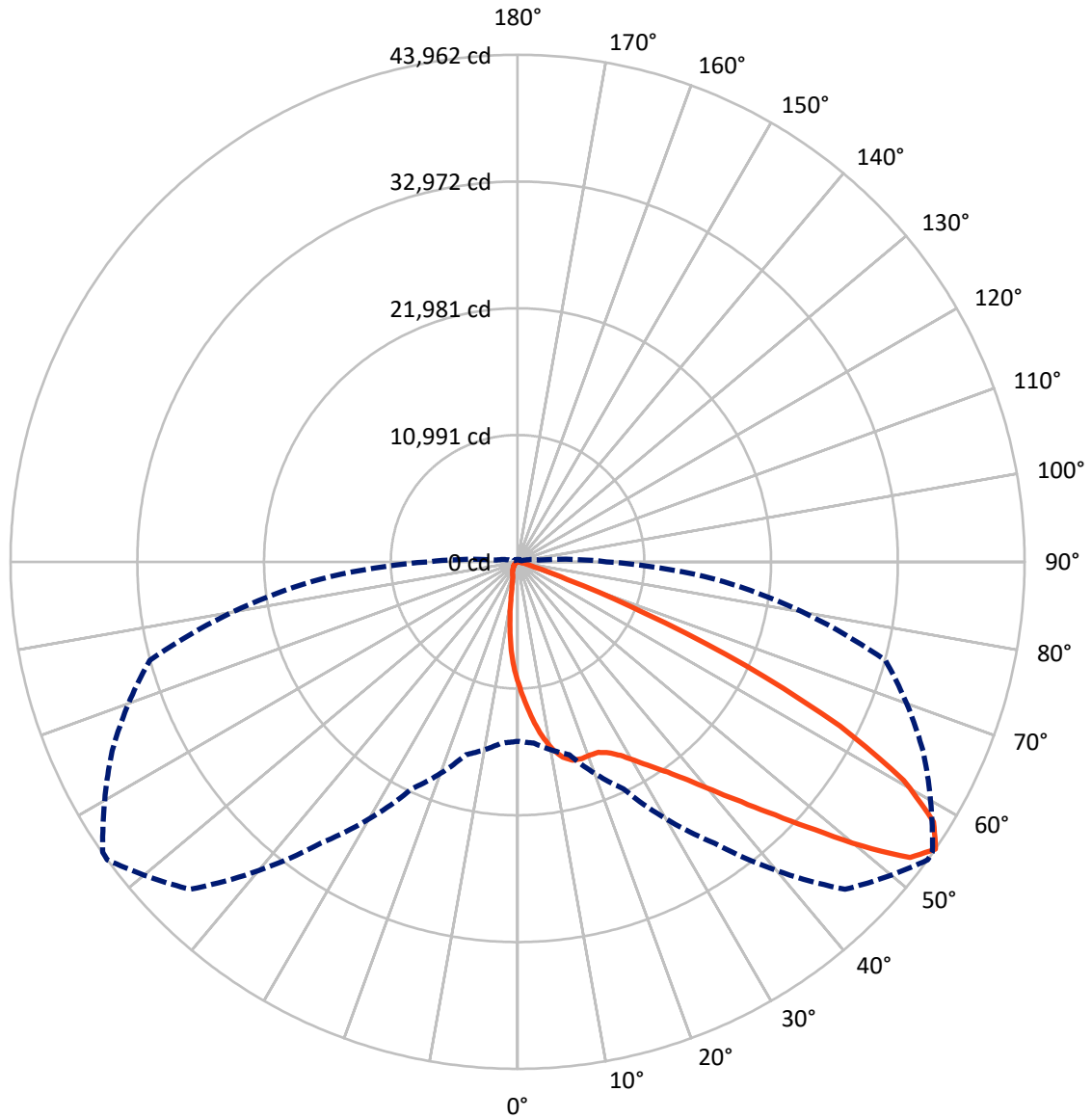
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2352.0	0.0	2352.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	44790.0	0.0	44790.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	47142.0	0.0	47142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	972.3	2.1
10°-20°	2666.5	5.7
20°-30°	4552.5	9.7
30°-40°	7306.0	15.5
40°-50°	11675.1	24.8
50°-60°	12510.2	26.5
60°-70°	6423.1	13.6
70°-80°	972.9	2.1
80°-90°	63.4	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°	47142.0	100.0
0°-180°	47142.0	100.0

Coefficient of Utilization

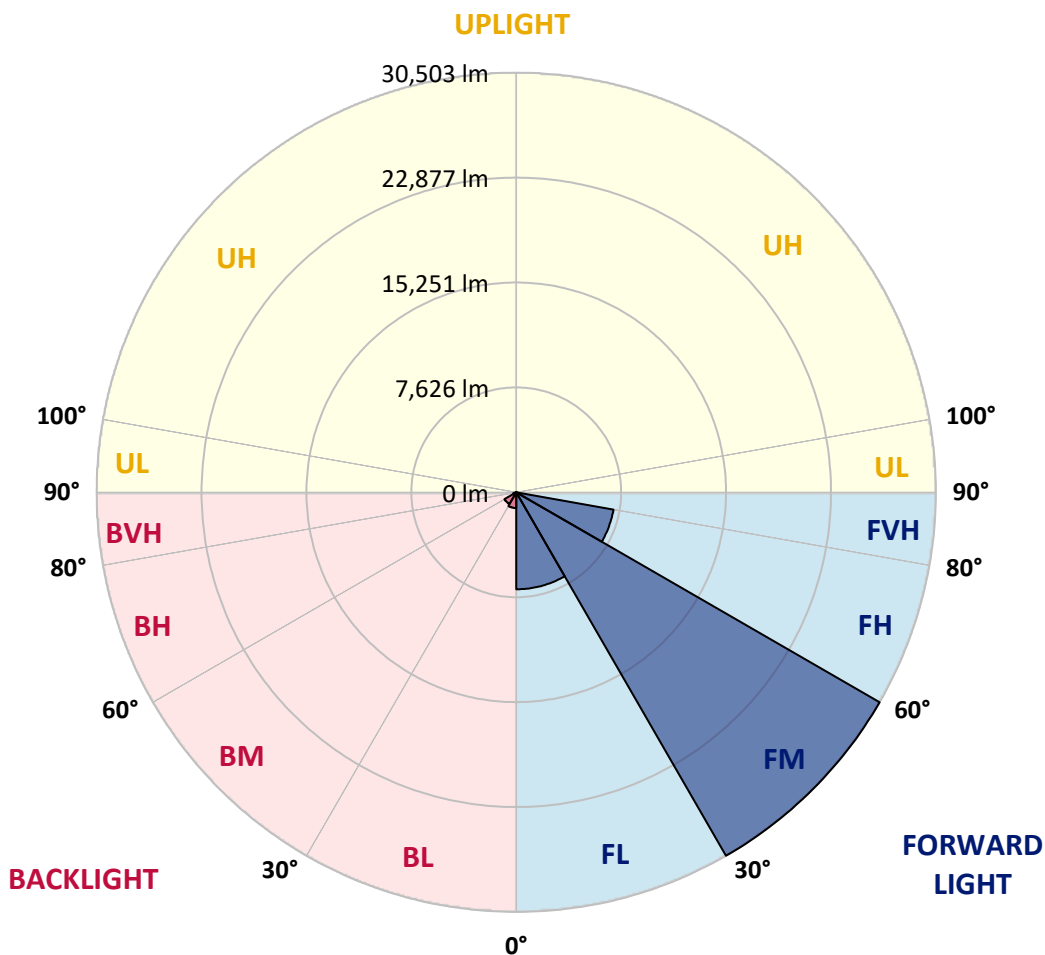


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7046.9	14.9			
FM (30°-60°)	30503.0	64.7			
FH (60°-80°)	7179.3	15.2			G3/7500
FVH (80°-90°)	60.8	0.1			G1/100
BL (0°-30°)	1144.4	2.4	B3/2500		
BM (30°-60°)	988.4	2.1	B1/1000		
BH (60°-80°)	216.8	0.5	B1/500		G1/500
BVH (80°-90°)	2.5	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°	10557.9	10557.9	10557.9	10557.9	10557.9	10557.9	10557.9	10557.9	10557.9	10557.9	10557.9
2.5°	13249.3	13051.8	13057.9	12968.4	12640.6	12384.1	12117.4	12054.3	11639.0	11203.3	10783.9
5°	15539.6	15395.1	15360.5	15187.4	14731.4	14248.9	13731.8	13611.7	12799.4	11907.7	11030.2
7.5°	16716.4	16718.4	16689.9	16626.8	16341.8	15873.5	15242.4	15116.2	14010.7	12673.2	11286.8
10°	16374.3	16451.7	16610.5	16820.2	17038.0	16979.0	16504.6	16390.6	15189.5	13483.4	11571.8
12.5°	15576.3	15586.5	15763.6	16107.6	16734.7	17378.0	17386.2	17347.5	16315.3	14330.3	11885.3
15°	15179.3	15218.0	15283.1	15505.0	16099.5	17129.6	17866.6	17921.6	17347.5	15230.2	12219.2
17.5°	15439.9	15494.9	15439.9	15466.3	15810.4	16736.7	17950.1	18090.6	18249.4	16119.9	12534.7
20°	16146.3	16197.2	16099.5	15991.6	16058.8	16622.7	17891.0	18080.4	18955.8	16909.8	12799.4
22.5°	17099.1	17119.5	16970.8	16793.7	16744.9	17009.5	17939.9	18135.3	19521.8	17624.3	12966.3
25°	18147.6	18165.9	17980.6	17777.0	17661.0	17768.9	18341.0	18487.6	20020.5	18306.4	13062.0
27.5°	19289.7	19306.0	19073.9	18823.5	18689.1	18693.2	19002.6	19159.4	20551.9	19084.1	13139.4
30°	20496.9	20488.8	20275.0	19926.9	19755.9	19751.8	19955.4	20114.2	21321.5	20081.6	13245.2
32.5°	21852.8	21836.5	21533.2	21101.6	20908.2	20936.7	21117.9	21209.5	22276.3	21144.3	13434.6
35°	23638.2	23591.4	23133.4	22597.9	22241.7	22231.5	22384.2	22457.5	23493.7	22431.0	13750.1
37.5°	25955.0	25912.3	25291.4	24513.7	24012.8	23825.5	24006.7	24100.4	25230.3	24082.1	14257.1
40°	28239.3	28196.5	27828.0	27115.5	26343.9	25894.0	26036.5	26136.2	27398.5	26085.3	14896.3
42.5°	29815.0	29851.7	29979.9	30039.0	29316.2	28371.6	28436.7	28540.6	29676.6	28227.1	15627.2
45°	30230.3	30309.7	31034.5	32457.6	32728.3	31991.3	31309.3	31366.3	31991.3	30368.8	16358.1
47.5°	28982.4	29128.9	30527.6	33174.2	35466.5	35987.7	34697.0	34621.7	34212.5	32101.3	16877.2
50°	26146.4	26280.8	28092.7	32007.6	36297.2	39802.9	38756.5	38534.6	36160.8	33137.5	17060.4
52.5°	22042.1	22205.0	23676.9	28335.0	34731.6	41504.9	42600.2	42414.9	37589.9	33219.0	17091.0
55°	15566.1	15763.6	17321.0	21716.4	29770.2	40151.0	43962.1	43907.2	38776.8	33003.2	17156.1
57.5°	8748.0	8890.6	10570.1	13921.1	21803.9	34971.8	42539.1	42903.5	39493.4	32628.6	17253.8
60°	3884.4	3923.1	4792.4	6930.0	12764.8	26726.6	38465.3	39080.2	38878.6	32127.7	17418.7
62.5°	2153.9	2121.4	2121.4	2880.7	5547.7	16545.3	31366.3	32382.2	36254.4	31535.3	17426.9
65°	1687.7	1657.2	1569.6	1581.9	2113.2	7343.3	21720.5	23526.3	31270.6	29798.7	16840.5
67.5°	1431.2	1404.7	1317.2	1282.6	1313.1	2422.7	11934.2	13809.2	23727.8	25285.3	14586.9
70°	1209.3	1191.0	1146.2	1103.4	1026.1	1197.1	4566.4	5840.9	14621.5	16820.2	9957.3
72.5°	973.1	965.0	981.3	944.6	851.0	798.1	1561.5	1891.3	6567.7	7506.2	4102.2
75°	838.8	834.7	842.8	806.2	700.3	555.8	794.0	867.3	1852.6	1836.3	830.6
77.5°	545.6	551.7	698.3	682.0	602.6	370.5	411.2	443.8	561.9	421.4	252.4
80°	348.1	344.1	354.2	566.0	541.5	283.0	205.6	215.8	270.8	207.7	122.2
82.5°	211.7	207.7	232.1	264.7	272.8	197.5	126.2	128.3	169.0	134.4	65.1
85°	18.3	24.4	140.5	130.3	93.6	61.1	61.1	65.1	89.6	79.4	36.6
87.5°	0.0	0.0	24.4	36.6	20.4	22.4	22.4	24.4	34.6	34.6	18.3
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°	10557.9	10557.9	10557.9	10557.9	10557.9	10557.9	10557.9	10557.9	10557.9	10557.9	10557.9
2.5°	10566.1	10354.3	9926.8	9515.6	9167.4	8831.5	8448.8	8070.1	7893.0	7821.7	7748.4
5°	10584.4	10148.7	9267.2	8379.6	7459.4	6630.8	5924.3	5199.6	4837.2	4678.4	4605.1
7.5°	10608.8	9945.1	8520.0	7029.8	5547.7	4423.9	3442.6	2811.5	2538.7	2496.0	2390.1
10°	10612.9	9698.8	7652.8	5539.5	3719.5	2667.0	2052.1	1726.4	1606.3	1585.9	1551.3
12.5°	10621.0	9407.7	6689.8	4102.2	2479.7	1783.4	1484.1	1376.2	1343.7	1341.6	1341.6
15°	10645.5	9102.3	5690.2	2956.1	1781.4	1412.9	1302.9	1260.2	1248.0	1254.1	1252.0
17.5°	10645.5	8741.9	4708.9	2202.8	1439.3	1270.4	1209.3	1180.8	1176.7	1182.8	1184.9
20°	10568.1	8304.2	3809.1	1714.2	1276.5	1178.8	1123.8	1097.3	1087.1	1091.2	1093.3
22.5°	10382.8	7766.8	3076.2	1419.0	1168.6	1095.3	1036.2	995.5	979.2	981.3	981.3
25°	10093.7	7129.5	2406.4	1227.6	1081.0	1005.7	936.5	889.7	879.5	877.5	881.5
27.5°	9723.2	6425.1	1915.7	1081.0	977.2	906.0	836.7	798.1	789.9	791.9	794.0
30°	9358.8	5694.3	1510.6	956.8	861.2	794.0	741.0	722.7	722.7	728.8	730.9
32.5°	9024.9	4991.9	1195.0	848.9	757.3	696.3	665.7	663.7	673.9	677.9	680.0
35°	8737.9	4342.5	989.4	765.5	675.9	623.0	612.8	620.9	633.1	641.3	643.3
37.5°	8534.3	3762.3	865.2	696.3	612.8	570.0	568.0	584.3	600.6	618.9	623.0
40°	8448.8	3271.6	779.7	635.2	561.9	529.3	523.2	545.6	576.1	602.6	606.7
42.5°	8377.5	2870.5	706.4	576.1	521.2	474.4	472.3	500.8	537.5	563.9	570.0
45°	8316.4	2548.9	639.3	513.0	468.2	407.2	413.3	449.9	478.4	506.9	513.0
47.5°	8190.2	2284.2	566.0	445.9	386.8	348.1	360.3	392.9	415.3	458.1	464.2
50°	7964.2	2068.4	490.6	364.4	315.6	301.3	319.6	342.0	370.5	407.2	411.2
52.5°	7811.6	1905.6	425.5	305.4	260.6	264.7	283.0	291.1	307.4	321.7	317.6
55°	7724.0	1816.0	372.6	264.7	221.9	234.1	238.2	228.0	219.9	205.6	199.5
57.5°	7713.8	1734.5	331.8	230.1	195.4	201.5	187.3	152.7	124.2	107.9	103.8
60°	7697.5	1634.8	299.3	193.4	173.0	164.9	134.4	83.5	59.0	55.0	55.0
62.5°	7520.4	1480.1	274.8	162.9	146.6	124.2	77.4	38.7	32.6	34.6	34.6
65°	6956.5	1264.3	250.4	132.3	116.0	89.6	38.7	22.4	12.2	14.3	14.3
67.5°	5914.1	1007.7	223.9	101.8	87.5	57.0	22.4	10.2	0.0	0.0	0.0
70°	3959.7	625.0	189.3	71.3	57.0	34.6	16.3	2.0	0.0	0.0	0.0
72.5°	1518.7	338.0	152.7	42.8	36.6	24.4	10.2	0.0	0.0	0.0	0.0
75°	342.0	221.9	105.9	30.5	26.5	16.3	4.1	0.0	0.0	0.0	0.0
77.5°	130.3	160.8	61.1	20.4	18.3	10.2	0.0	0.0	0.0	0.0	0.0
80°	63.1	95.7	28.5	12.2	10.2	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	32.6	36.6	12.2	6.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.3	18.3	6.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	6.1	2.0	2.0	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)