

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: P322859

Luminaire Tested: **GAN-SA5D-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25598 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

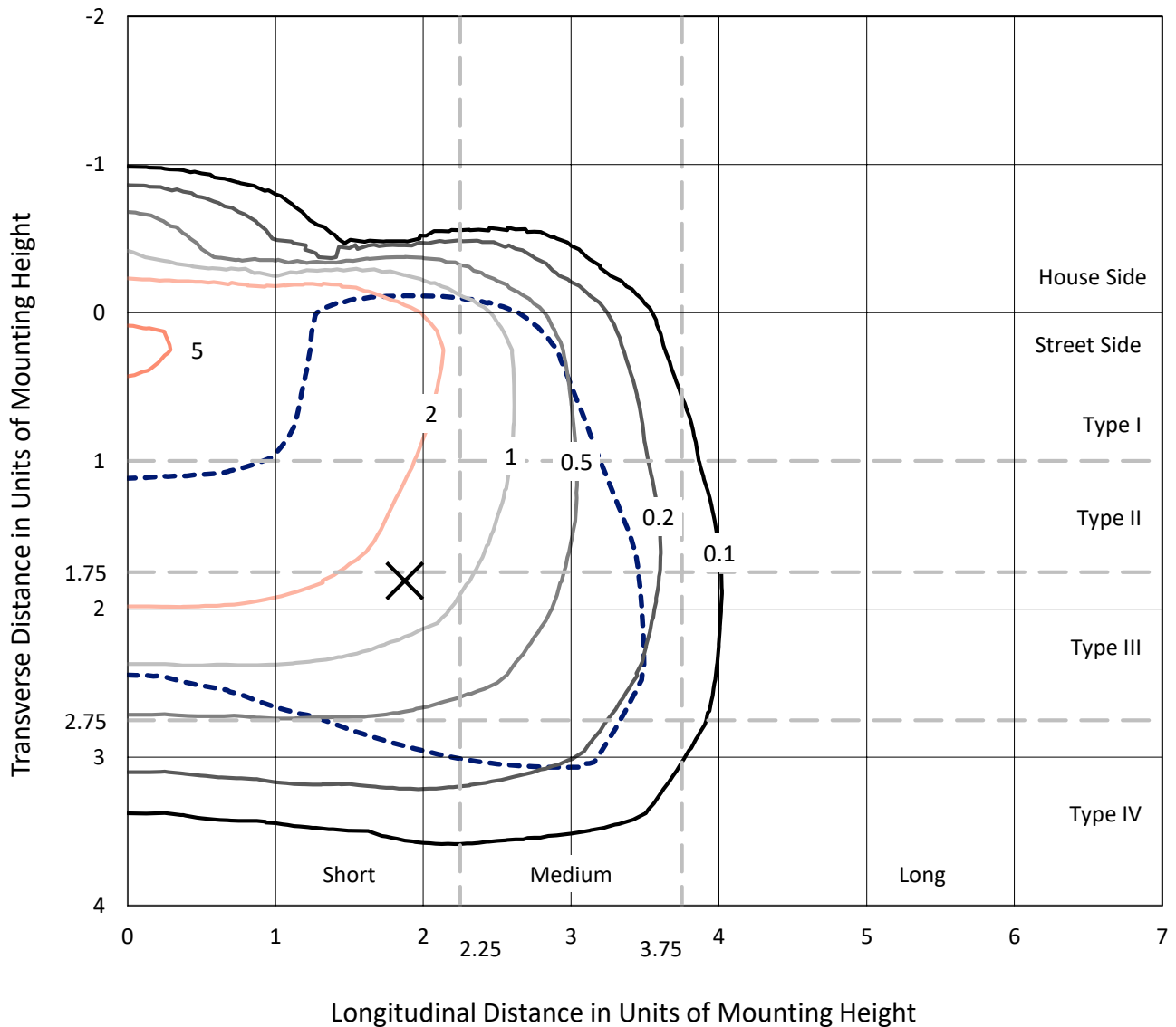
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

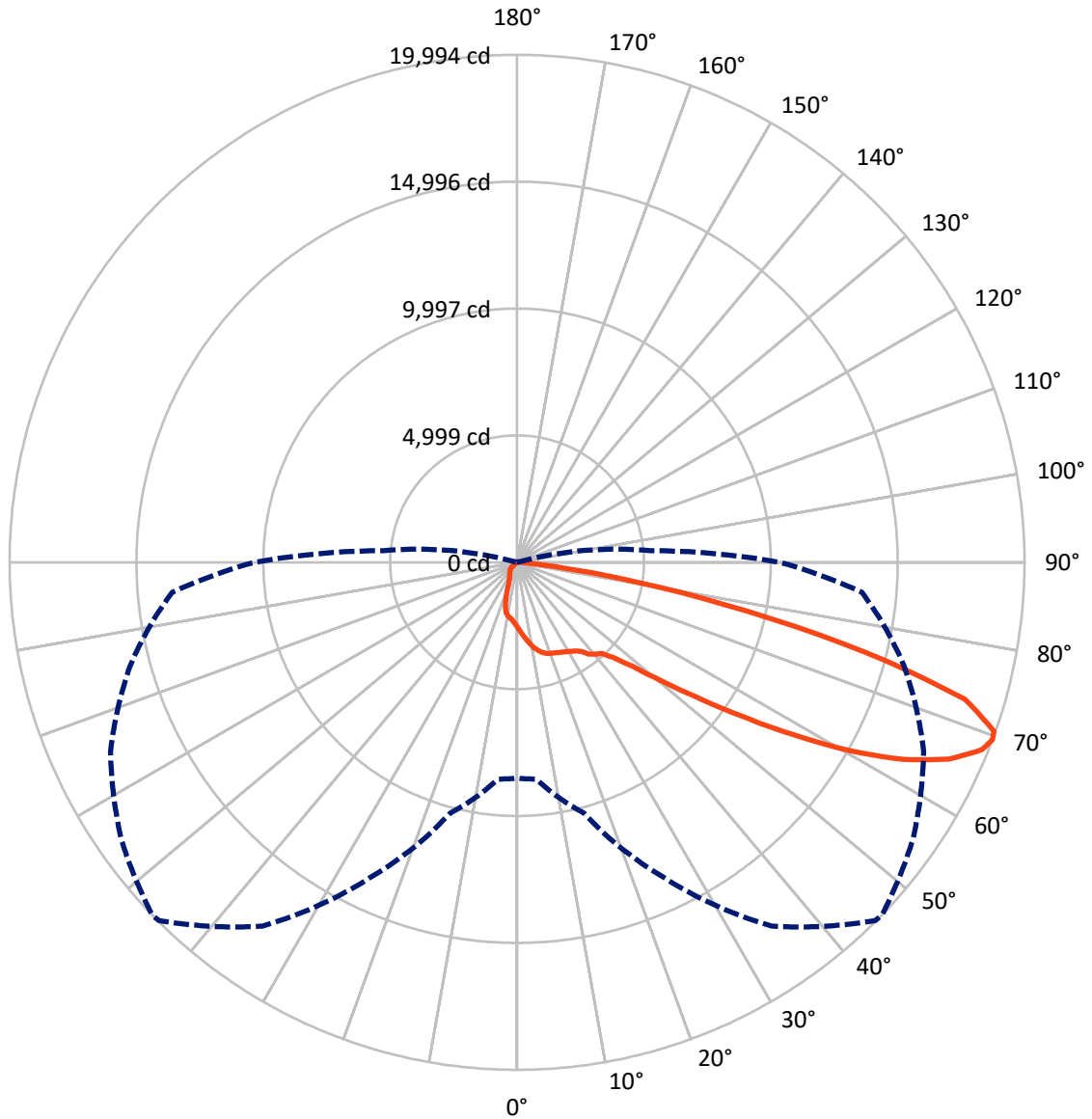
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2627.0	0.0	2627.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22971.0	0.0	22971.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	25598.0	0.0	25598.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.3	1.0
10°-20°	774.5	3.0
20°-30°	1218.0	4.8
30°-40°	1746.6	6.8
40°-50°	3018.8	11.8
50°-60°	5964.0	23.3
60°-70°	8335.2	32.6
70°-80°	4026.8	15.7
80°-90°	258.8	1.0
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°	25598.0	100.0
0°-180°	25598.0	100.0

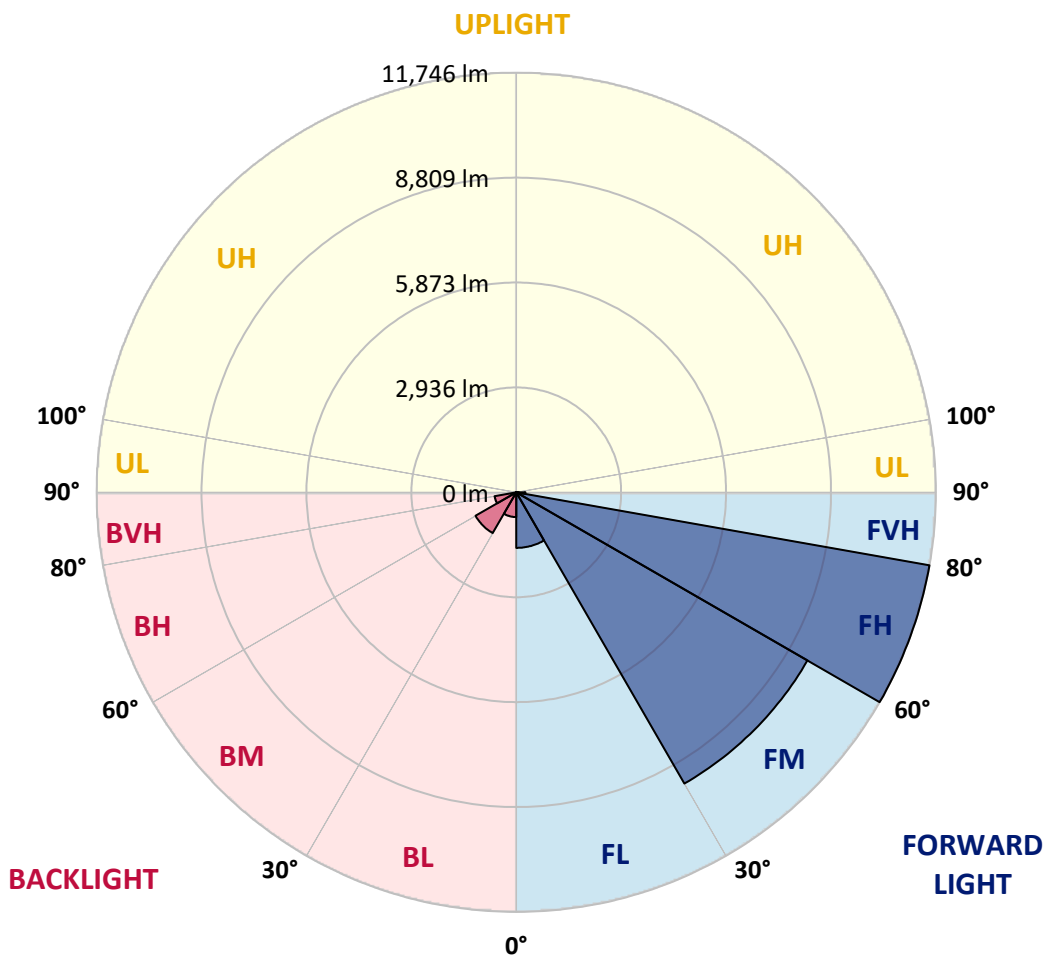


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.4	6.1			
FM (30°-60°)	9413.0	36.8			
FH (60°-80°)	11746.0	45.9			G4/12000
FVH (80°-90°)	256.6	1.0			G3/500
BL (0°-30°)	692.4	2.7	B2/1000		
BM (30°-60°)	1316.5	5.1	B2/2500		
BH (60°-80°)	616.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.2	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2849.3	2845.7	2828.9	2821.7	2780.9	2756.9	2747.3	2717.2	2674.0	2630.8	2582.8
5°	3173.3	3172.1	3140.9	3110.9	3034.1	2962.1	2948.9	2879.3	2782.1	2690.8	2599.6
7.5°	3504.6	3489.0	3457.8	3400.2	3288.5	3173.3	3162.5	3064.1	2926.1	2794.1	2663.2
10°	3785.4	3775.8	3735.0	3647.4	3516.6	3385.8	3372.6	3251.3	3095.3	2933.3	2766.5
12.5°	4003.9	3996.7	3942.7	3833.4	3694.2	3558.6	3540.6	3432.6	3265.7	3084.5	2887.7
15°	4137.1	4133.5	4067.5	3951.1	3814.2	3696.6	3681.0	3586.2	3431.4	3241.7	3019.7
17.5°	4168.3	4169.5	4101.1	3983.5	3870.6	3786.6	3774.6	3702.6	3573.0	3384.6	3151.7
20°	4098.7	4113.1	4051.9	3949.9	3880.2	3835.8	3826.2	3783.0	3673.8	3496.2	3257.3
22.5°	4000.3	4007.5	3965.5	3897.0	3868.2	3876.6	3871.8	3847.8	3755.4	3592.2	3361.8
25°	3940.3	3940.3	3915.0	3857.4	3876.6	3928.2	3929.4	3924.6	3851.4	3709.8	3489.0
27.5°	3937.9	3930.6	3901.8	3858.6	3911.4	3990.7	3995.5	4027.9	3982.3	3852.6	3647.4
30°	4033.9	4025.5	3964.3	3907.8	3975.1	4060.3	4072.3	4143.1	4120.3	4007.5	3823.8
32.5°	4258.3	4228.3	4092.7	4000.3	4050.7	4152.7	4168.3	4281.1	4317.1	4198.3	3994.3
35°	4565.6	4470.7	4275.1	4175.5	4180.3	4287.1	4301.5	4467.1	4574.0	4373.5	4126.3
37.5°	4989.2	4942.4	4624.4	4357.9	4379.5	4541.6	4583.6	4763.6	4733.6	4469.5	4276.3
40°	5918.2	5845.0	5506.5	4869.2	4570.4	4748.0	4761.2	4857.2	4859.6	4686.8	4588.4
42.5°	7183.2	7153.2	6796.7	5797.0	4946.0	4886.0	4910.0	5072.0	5253.3	5145.3	5140.4
45°	8583.8	8568.2	8190.2	7028.4	5705.7	5338.5	5368.5	5585.7	5932.6	5956.6	6109.0
47.5°	9710.8	9703.6	9486.4	8402.6	6868.7	6105.4	6115.0	6345.4	6955.1	7256.4	7500.0
50°	10738.2	10773.0	10601.4	9889.6	8453.0	7306.8	7284.0	7437.6	8417.0	8910.3	9212.7
52.5°	12166.4	12215.6	11734.3	11277.1	10115.3	8797.5	8779.5	8940.3	10174.1	10543.7	10597.8
55°	13427.8	13343.8	12963.3	12831.3	12142.4	10638.6	10633.8	10775.4	11873.6	12030.8	12130.4
57.5°	13984.7	13952.3	14135.9	14438.4	14265.6	12814.5	12803.7	12695.7	13394.2	13411.0	13717.1
60°	14336.4	14376.0	14938.9	15871.4	16302.3	15156.1	15086.5	14427.6	14846.5	14809.2	15136.9
62.5°	14072.3	14150.3	15163.3	16717.6	17826.5	17200.0	17101.6	16014.2	16087.5	15959.0	16263.9
65°	12670.5	12791.7	14451.6	16557.9	18582.7	18797.5	18697.9	17414.9	17072.8	16861.6	16692.4
67.5°	10288.1	10360.1	12093.2	15169.3	18241.8	19750.5	19730.1	18642.7	17816.9	16709.2	15396.1
69°	8502.2	8573.0	10241.3	13707.5	17491.7	19954.5	19994.1	19036.3	17675.3	15782.6	13641.5
70°	7201.2	7276.8	8831.1	12454.5	16621.5	19859.7	19930.5	18999.1	17269.7	14709.6	12101.6
72.5°	3777.0	3841.8	5436.9	8580.2	13550.2	18235.8	18450.6	17393.3	14638.8	10683.0	7155.6
75°	1187.0	1224.2	2123.2	4485.1	9277.5	14179.1	14228.4	13643.9	10394.9	5876.2	2980.1
77.5°	452.5	441.7	706.9	1652.7	4690.4	8928.3	9229.5	8526.2	5454.9	2077.5	687.7
80°	243.6	244.8	367.3	684.1	2006.7	4588.4	4842.8	4132.3	1938.3	648.1	158.4
82.5°	105.6	110.4	206.4	362.5	921.8	1692.3	1819.5	1514.7	740.5	435.7	58.8
85°	22.8	25.2	99.6	196.8	375.7	475.3	498.1	490.9	471.7	338.5	22.8
87.5°	0.0	0.0	44.4	70.8	94.8	108.0	94.8	123.6	260.4	228.0	12.0
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°	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8	2564.8
2.5°	2567.2	2545.6	2508.4	2467.6	2438.8	2408.8	2384.8	2374.0	2362.0	2353.6	2364.4
5°	2562.4	2520.4	2448.4	2378.8	2328.4	2287.6	2254.0	2240.8	2227.6	2218.0	2216.8
7.5°	2604.4	2545.6	2435.2	2333.2	2255.2	2200.0	2154.4	2135.2	2119.6	2112.3	2106.3
10°	2684.8	2609.2	2461.6	2328.4	2227.6	2134.0	2035.5	1959.9	1910.7	1887.9	1879.5
12.5°	2789.3	2694.4	2512.0	2353.6	2207.2	2027.1	1818.3	1638.3	1521.9	1483.4	1460.6
15°	2911.7	2794.1	2578.0	2386.0	2132.8	1803.9	1449.8	1214.6	1106.6	1085.0	1061.0
17.5°	3029.3	2899.7	2657.2	2392.0	1969.5	1441.4	1062.2	902.5	860.5	874.9	878.5
20°	3132.5	3004.1	2735.3	2339.2	1673.1	1081.4	822.1	782.5	798.1	825.7	830.5
22.5°	3236.9	3104.9	2807.3	2200.0	1293.8	820.9	740.5	750.1	765.7	793.3	798.1
25°	3364.2	3227.3	2874.5	1944.3	971.0	698.5	703.3	717.7	733.3	758.5	760.9
27.5°	3510.6	3382.2	2918.9	1611.9	720.1	642.1	657.7	679.3	694.9	718.9	723.7
30°	3705.0	3586.2	2933.3	1267.4	603.7	591.7	598.9	625.3	648.1	669.7	673.3
32.5°	3887.4	3787.8	2885.3	956.6	559.3	544.9	544.9	560.5	586.9	607.3	612.1
35°	4055.5	3990.7	2731.7	699.7	525.7	501.7	489.7	489.7	506.5	523.3	528.1
37.5°	4277.5	4275.1	2483.2	558.1	493.3	465.7	440.5	421.3	415.3	418.9	421.3
40°	4658.0	4661.6	2159.2	500.5	465.7	428.5	390.1	355.3	322.9	312.1	310.9
42.5°	5252.1	5198.1	1819.5	472.9	441.7	390.1	332.5	285.6	235.2	219.6	218.4
45°	6195.4	5875.0	1459.4	447.7	416.5	346.9	274.8	211.2	170.4	158.4	158.4
47.5°	7569.7	6764.3	1130.6	420.1	382.9	297.6	207.6	152.4	124.8	118.8	120.0
50°	8990.7	7635.7	866.5	385.3	342.1	246.0	153.6	110.4	94.8	94.8	96.0
52.5°	10250.9	8274.2	675.7	348.1	291.6	193.2	116.4	86.4	79.2	78.0	79.2
55°	11430.7	8685.8	517.3	304.9	231.6	144.0	88.8	70.8	66.0	63.6	62.4
57.5°	12568.5	8889.9	387.7	246.0	168.0	104.4	70.8	60.0	55.2	51.6	50.4
60°	13325.8	8724.2	266.4	181.2	116.4	75.6	58.8	51.6	45.6	42.0	40.8
62.5°	13753.1	8271.8	171.6	130.8	82.8	56.4	46.8	43.2	34.8	31.2	31.2
65°	13580.2	7525.2	120.0	93.6	60.0	42.0	34.8	34.8	25.2	20.4	19.2
67.5°	12034.4	6357.5	91.2	69.6	43.2	31.2	26.4	30.0	15.6	9.6	9.6
69°	10354.1	5268.9	78.0	57.6	36.0	25.2	22.8	27.6	10.8	7.2	6.0
70°	8999.1	4545.2	70.8	50.4	30.0	21.6	20.4	26.4	10.8	6.0	4.8
72.5°	5384.1	2534.8	54.0	36.0	19.2	16.8	16.8	30.0	10.8	6.0	4.8
75°	2176.0	892.9	39.6	25.2	14.4	14.4	20.4	38.4	9.6	4.8	3.6
77.5°	493.3	195.6	22.8	15.6	9.6	14.4	24.0	30.0	6.0	2.4	0.0
80°	120.0	48.0	14.4	9.6	6.0	10.8	18.0	16.8	1.2	0.0	0.0
82.5°	39.6	16.8	6.0	4.8	1.2	3.6	8.4	4.8	0.0	0.0	0.0
85°	16.8	9.6	2.4	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
87.5°	10.8	3.6	0.0	0.0	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)