

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: P322664

Luminaire Tested: **GAN-SA0D-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54538 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

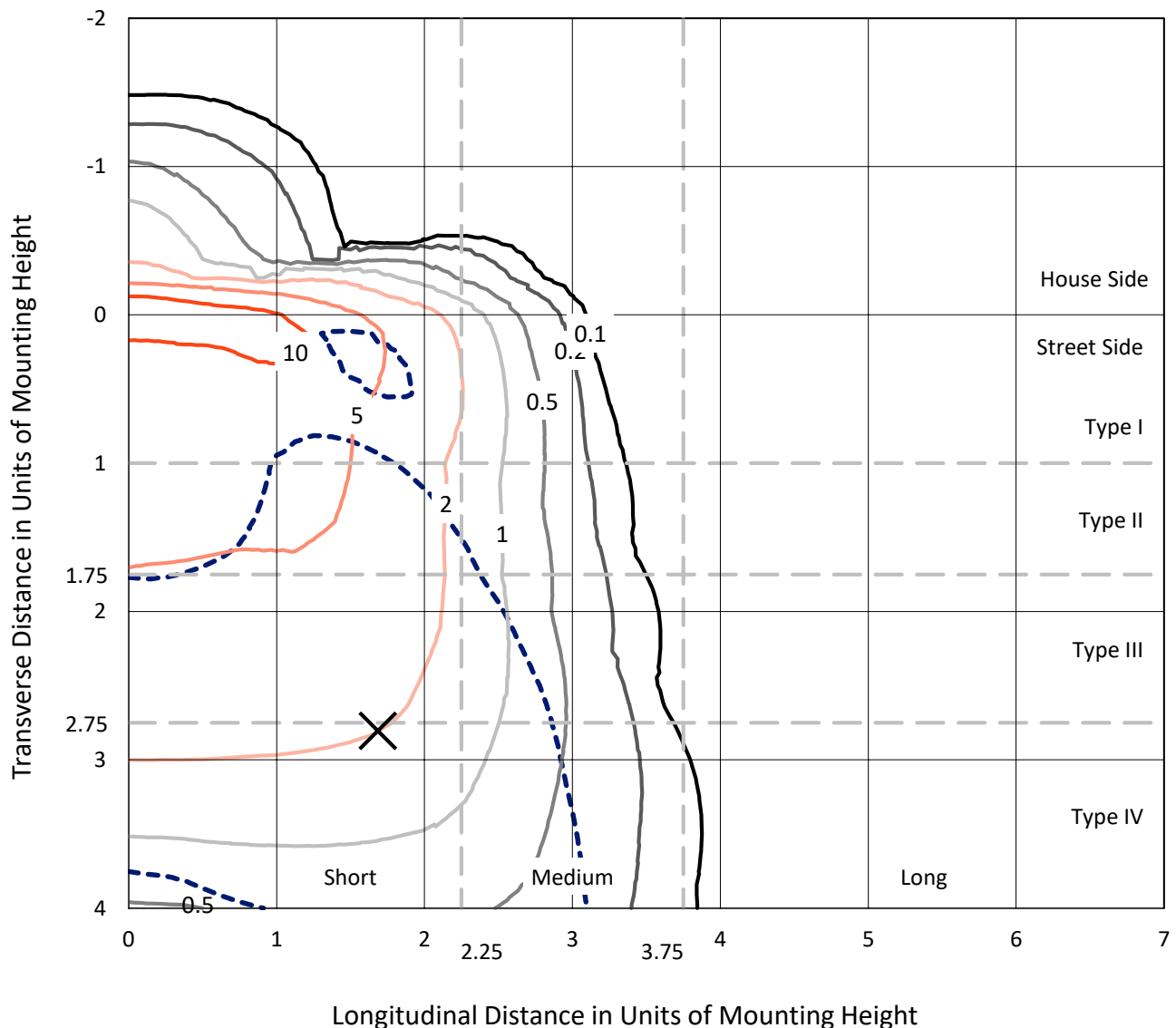
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

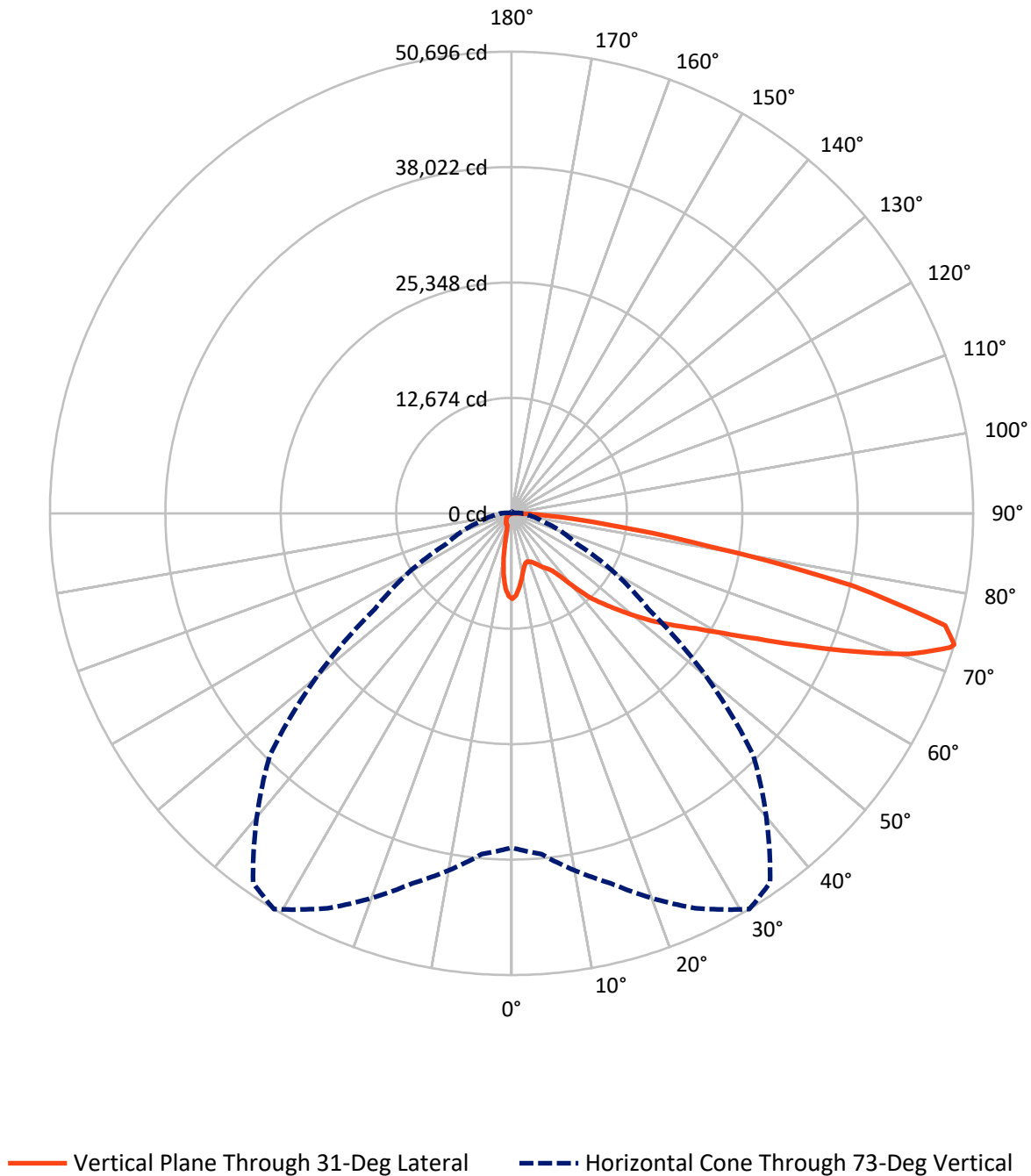
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4971.3	0.0	4971.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	49566.7	0.0	49566.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	54538.0	0.0	54538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.0	1.4
10°-20°	1689.3	3.1
20°-30°	2531.0	4.6
30°-40°	4026.9	7.4
40°-50°	7190.9	13.2
50°-60°	11158.3	20.5
60°-70°	14833.4	27.2
70°-80°	11157.7	20.5
80°-90°	1172.4	2.1
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°	54538.0	100.0
0°-180°	54538.0	100.0

Coefficient of Utilization



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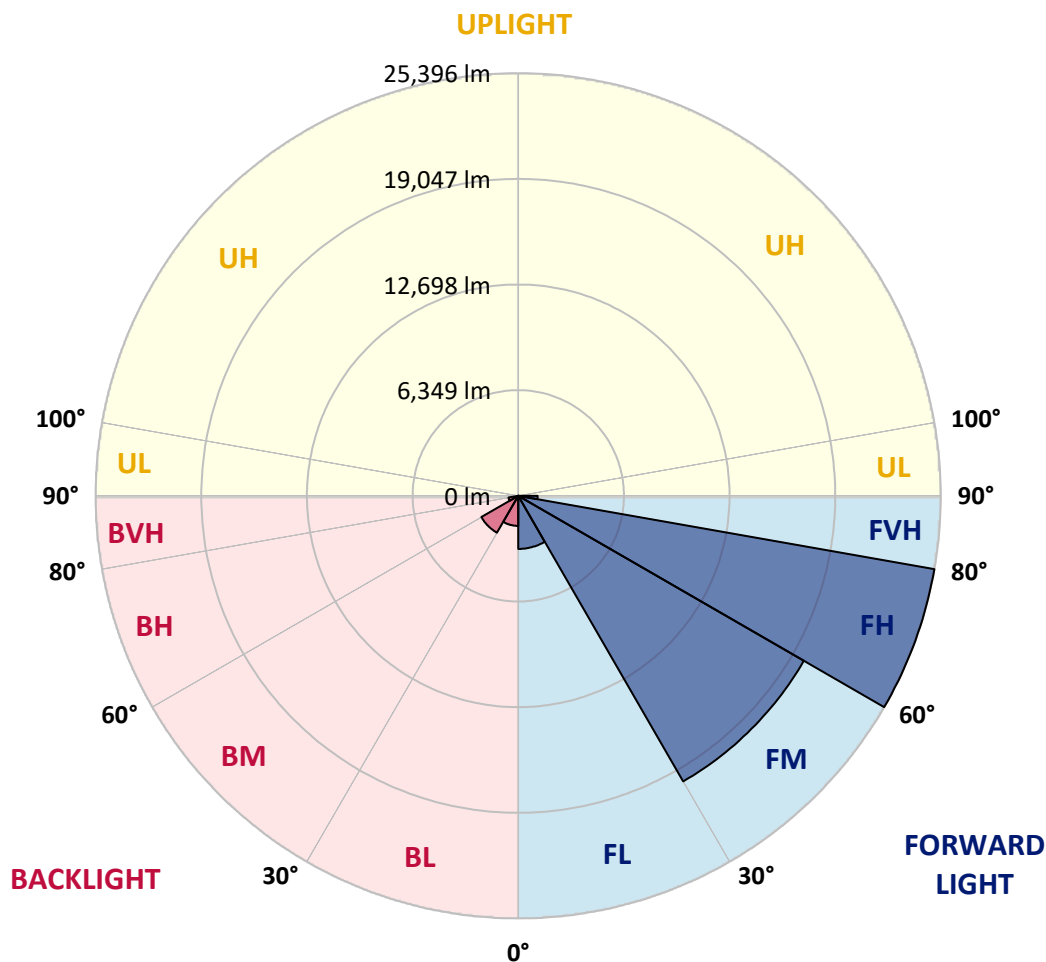
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3190.5	5.9			
FM	(30°-60°)	19817.2	36.3			
FH	(60°-80°)	25396.3	46.6			G5
FVH	(80°-90°)	1162.6	2.1			G5
BL	(0°-30°)	1807.8	3.3	B3/2500		
BM	(30°-60°)	2558.9	4.7	B3/5000		
BH	(60°-80°)	594.8	1.1	B2/1000		G2/1000
BVH	(80°-90°)	9.9	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4
2.5°	8892.3	8929.7	8969.7	8977.7	9044.4	9047.1	9143.2	9215.2	9287.3	9356.7	9380.7
5°	7979.6	8041.0	8113.0	8185.1	8326.5	8382.6	8617.4	8857.6	9087.1	9306.0	9412.7
7.5°	7005.5	7074.9	7176.3	7355.1	7512.6	7622.0	7992.9	8420.0	8847.0	9249.9	9482.1
10°	6116.8	6180.9	6287.6	6477.1	6719.9	6869.4	7368.5	7960.9	8588.1	9199.2	9586.2
12.5°	5551.0	5585.7	5644.4	5847.3	6066.1	6234.2	6821.4	7555.3	8374.6	9196.6	9754.3
15°	5446.9	5457.6	5409.6	5500.3	5671.1	5833.9	6429.1	7227.0	8211.8	9239.3	9973.2
17.5°	5612.4	5607.1	5446.9	5436.3	5572.4	5705.8	6236.9	7000.2	8097.0	9338.0	10256.1
20°	5863.3	5844.6	5567.0	5516.3	5660.4	5785.9	6223.6	6914.8	8054.3	9503.5	10600.3
22.5°	6196.9	6164.8	5729.8	5676.5	5831.2	5962.0	6389.0	6997.5	8091.7	9725.0	11000.6
25°	6610.5	6562.5	6010.1	5951.3	6108.8	6239.6	6685.3	7235.0	8203.8	9994.5	11507.7
27.5°	7077.6	7008.2	6458.4	6306.3	6485.1	6621.2	7080.2	7598.0	8379.9	10280.1	12129.5
30°	7517.9	7427.2	6930.8	6679.9	6898.8	7050.9	7507.2	8030.3	8662.8	10720.4	12980.9
32.5°	7960.9	7859.5	7352.4	7053.5	7251.0	7416.5	7947.6	8625.4	9193.9	11393.0	14112.4
35°	8980.4	8873.6	8251.8	7758.1	7755.4	7848.8	8564.1	9439.4	9895.8	12329.7	15462.8
37.5°	10696.4	10635.0	10042.6	9105.8	8855.0	8750.9	9404.7	10410.8	10904.6	13618.7	16986.7
40°	12575.2	12521.8	11857.3	11008.7	10627.0	10370.8	10611.0	11763.9	12329.7	15193.3	18542.6
42.5°	14696.9	14443.4	13258.4	13004.9	12663.3	12468.5	12252.3	13431.9	14080.4	16906.6	20085.1
45°	16623.7	16196.7	14659.5	14275.2	14197.8	14245.9	14366.0	15673.7	16049.9	18942.9	21622.3
47.5°	17771.3	17435.0	16255.4	15887.2	15865.8	16183.4	17090.8	18206.3	18011.5	20717.6	22975.4
50°	18862.8	18558.6	17579.1	17669.9	17768.6	18201.0	20183.9	20811.0	19802.2	22326.9	24216.4
52.5°	19746.2	19281.8	18769.4	19279.2	19764.9	20461.4	23375.7	23148.9	21072.6	23607.9	25278.5
55°	20255.9	20045.1	20293.3	20805.7	21718.4	22850.0	26388.7	25094.4	22001.3	24776.8	25985.8
57.5°	22124.1	21710.4	22204.1	22647.1	23837.4	25420.0	28969.4	26543.5	22671.2	25500.0	26148.6
60°	24384.5	24050.9	24341.8	25078.4	26685.0	28545.1	31382.0	27725.8	23020.8	25964.4	25726.9
62.5°	27982.0	27541.6	27360.2	28184.8	30314.5	32345.4	33212.8	28545.1	22943.4	25758.9	24280.4
65°	32801.8	32345.4	31534.1	32281.4	34990.2	36423.3	35259.7	28718.6	22409.6	24096.3	20624.2
67.5°	37739.0	37408.1	36714.2	37973.8	40418.4	40880.1	37424.1	28296.9	20690.9	19538.0	14571.5
70°	41000.2	40858.8	41309.8	44096.0	46276.4	46142.9	39409.6	26031.1	16127.3	12014.8	7208.3
72.5°	38649.0	39326.9	42657.5	47709.5	50372.9	49284.1	38390.2	19989.0	9217.9	4622.3	2084.3
73°	36700.8	37568.2	42051.7	47845.6	50695.8	49502.9	37533.5	18347.8	7856.8	3648.2	1579.9
75°	25532.1	26596.9	34814.0	44560.4	49185.3	47165.1	31285.9	11230.2	3640.2	1617.3	637.8
77.5°	12396.4	13183.7	19169.7	32196.0	38251.4	36850.3	19476.6	4184.6	1644.0	1011.5	293.6
80°	4627.6	5145.4	8321.2	16386.2	22105.4	22684.5	8566.7	1582.6	1094.2	814.0	149.5
82.5°	1211.6	1350.4	3069.1	7307.1	11328.9	11857.3	2700.8	798.0	800.6	669.9	90.7
85°	387.0	443.0	958.1	3279.9	5337.5	4686.3	704.6	387.0	581.8	499.1	50.7
87.5°	48.0	61.4	304.2	771.3	1176.9	653.8	109.4	114.8	248.2	277.6	29.4
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°	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4
2.5°	9404.7	9391.4	9394.0	9324.7	9279.3	9188.6	9095.1	9052.4	9007.1	8988.4	9007.1
5°	9452.8	9428.7	9359.4	9145.9	8919.0	8625.4	8350.6	8142.4	7880.9	7808.8	7883.5
7.5°	9527.5	9479.5	9276.6	8841.6	8337.2	7776.8	7147.0	6687.9	6311.6	6068.8	6156.8
10°	9636.9	9546.2	9137.8	8398.6	7496.6	6503.8	5609.7	4913.2	4419.5	4216.6	4208.6
12.5°	9821.1	9650.3	8967.0	7822.1	6469.1	5145.4	3973.8	3218.5	2818.2	2559.3	2554.0
15°	10023.9	9773.0	8750.9	7130.9	5273.5	3685.6	2559.3	1985.6	1726.7	1644.0	1633.3
17.5°	10272.1	9914.5	8470.7	6279.6	4021.8	2441.9	1670.6	1505.2	1494.5	1486.5	1486.5
20°	10584.3	10082.6	8110.4	5305.5	2852.9	1630.6	1419.8	1430.5	1435.8	1425.1	1427.8
22.5°	10947.3	10253.4	7680.7	4259.3	1929.5	1363.7	1358.4	1371.7	1377.1	1371.7	1374.4
25°	11368.9	10450.9	7157.6	3162.5	1393.1	1294.4	1307.7	1326.4	1339.7	1339.7	1339.7
27.5°	11892.0	10691.1	6527.8	2207.1	1203.6	1222.3	1259.7	1294.4	1313.0	1318.4	1318.4
30°	12572.5	10990.0	5772.5	1513.2	1094.2	1126.2	1195.6	1262.3	1297.0	1302.4	1305.0
32.5°	13431.9	11326.2	4897.2	1118.2	1000.8	1024.8	1099.5	1211.6	1278.3	1289.0	1289.0
35°	14416.7	11715.9	3955.1	974.1	934.1	942.1	1000.8	1128.9	1246.3	1275.7	1278.3
37.5°	15494.8	12100.2	3007.7	910.0	878.0	878.0	920.7	1030.1	1168.9	1259.7	1270.3
40°	16501.0	12332.4	2108.3	859.3	827.3	827.3	864.7	944.7	1075.5	1211.6	1241.0
42.5°	17429.7	12412.4	1467.8	811.3	779.3	787.3	819.3	883.4	982.1	1118.2	1144.9
45°	18385.1	12399.1	1070.2	755.3	731.2	755.3	779.3	827.3	899.4	976.8	982.1
47.5°	19105.7	12287.0	848.7	701.9	685.9	717.9	739.2	771.3	811.3	806.0	806.0
50°	19780.9	12014.8	683.2	629.8	640.5	677.9	688.5	699.2	701.9	651.2	645.8
52.5°	20293.3	11590.4	547.1	552.4	595.1	632.5	621.8	605.8	579.1	517.7	507.1
55°	20464.1	10773.8	429.7	456.4	528.4	576.5	536.4	501.7	451.0	400.3	389.6
57.5°	20154.5	9719.6	349.6	354.9	445.7	485.7	440.3	400.3	344.3	301.6	293.6
60°	19498.0	8548.1	288.2	266.9	344.3	379.0	349.6	309.6	258.9	226.8	224.2
62.5°	18195.6	7299.1	237.5	208.2	261.5	290.9	272.2	242.9	200.2	178.8	176.1
65°	15457.5	5839.3	192.2	168.1	202.8	226.8	210.8	189.5	157.5	141.4	138.8
67.5°	10789.8	3947.1	157.5	138.8	160.1	178.8	165.5	154.8	125.4	122.8	125.4
70°	5204.1	1902.8	130.8	112.1	125.4	138.8	133.4	125.4	120.1	138.8	160.1
72.5°	1491.8	637.8	104.1	93.4	101.4	109.4	114.8	112.1	130.8	168.1	194.8
73°	1147.6	515.1	98.7	88.1	96.1	106.8	112.1	109.4	133.4	170.8	194.8
75°	491.1	248.2	74.7	72.1	80.1	93.4	98.7	98.7	133.4	173.5	186.8
77.5°	221.5	133.4	48.0	56.0	69.4	74.7	82.7	82.7	106.8	133.4	133.4
80°	125.4	72.1	37.4	42.7	50.7	50.7	50.7	45.4	48.0	53.4	58.7
82.5°	80.1	48.0	29.4	34.7	32.0	26.7	21.4	21.4	18.7	21.4	26.7
85°	45.4	26.7	26.7	21.4	13.3	10.7	13.3	10.7	2.7	0.0	2.7
87.5°	26.7	16.0	8.0	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)