

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: P323821

Luminaire Tested: **GAN-SA7D-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40564 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

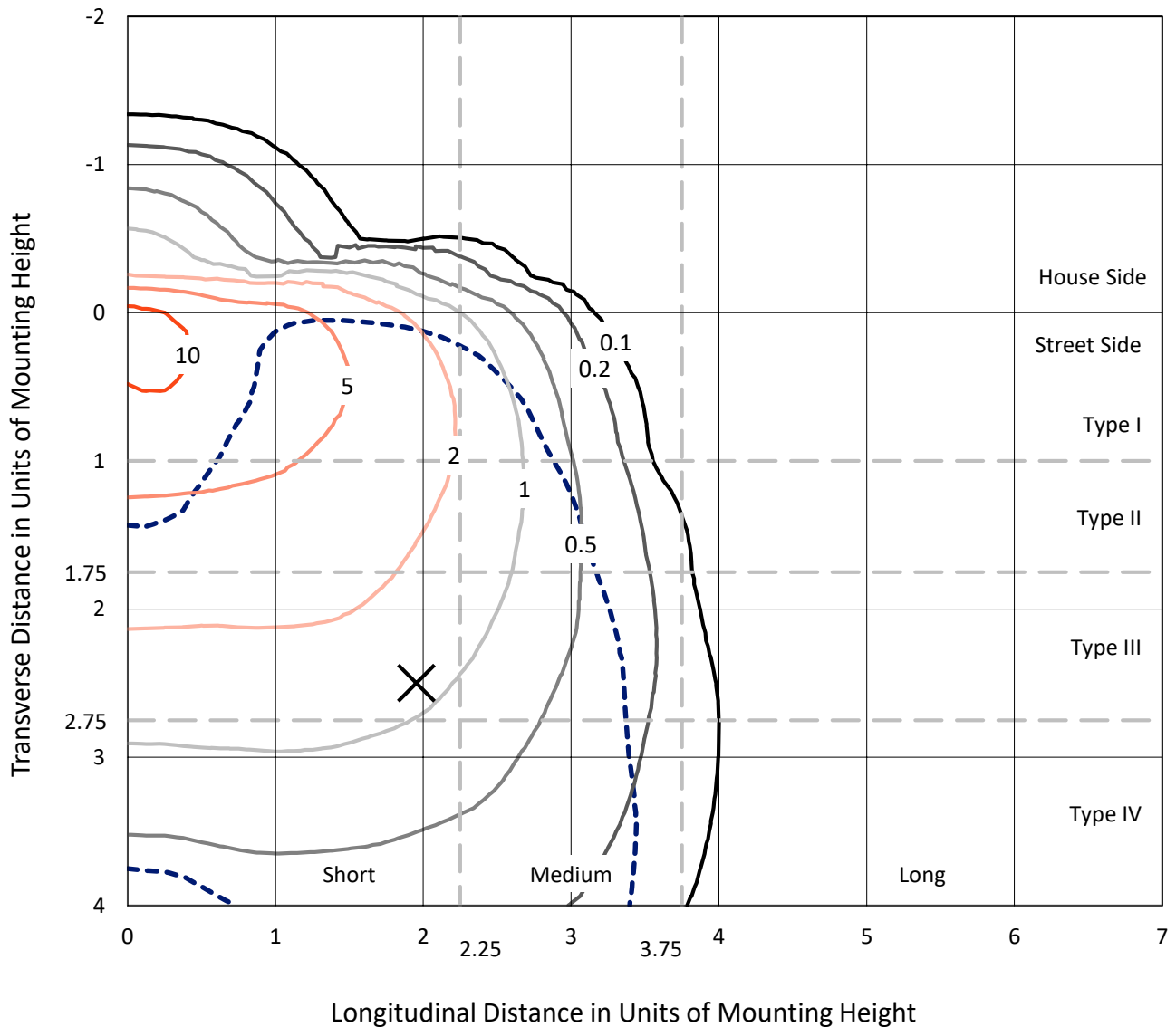
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

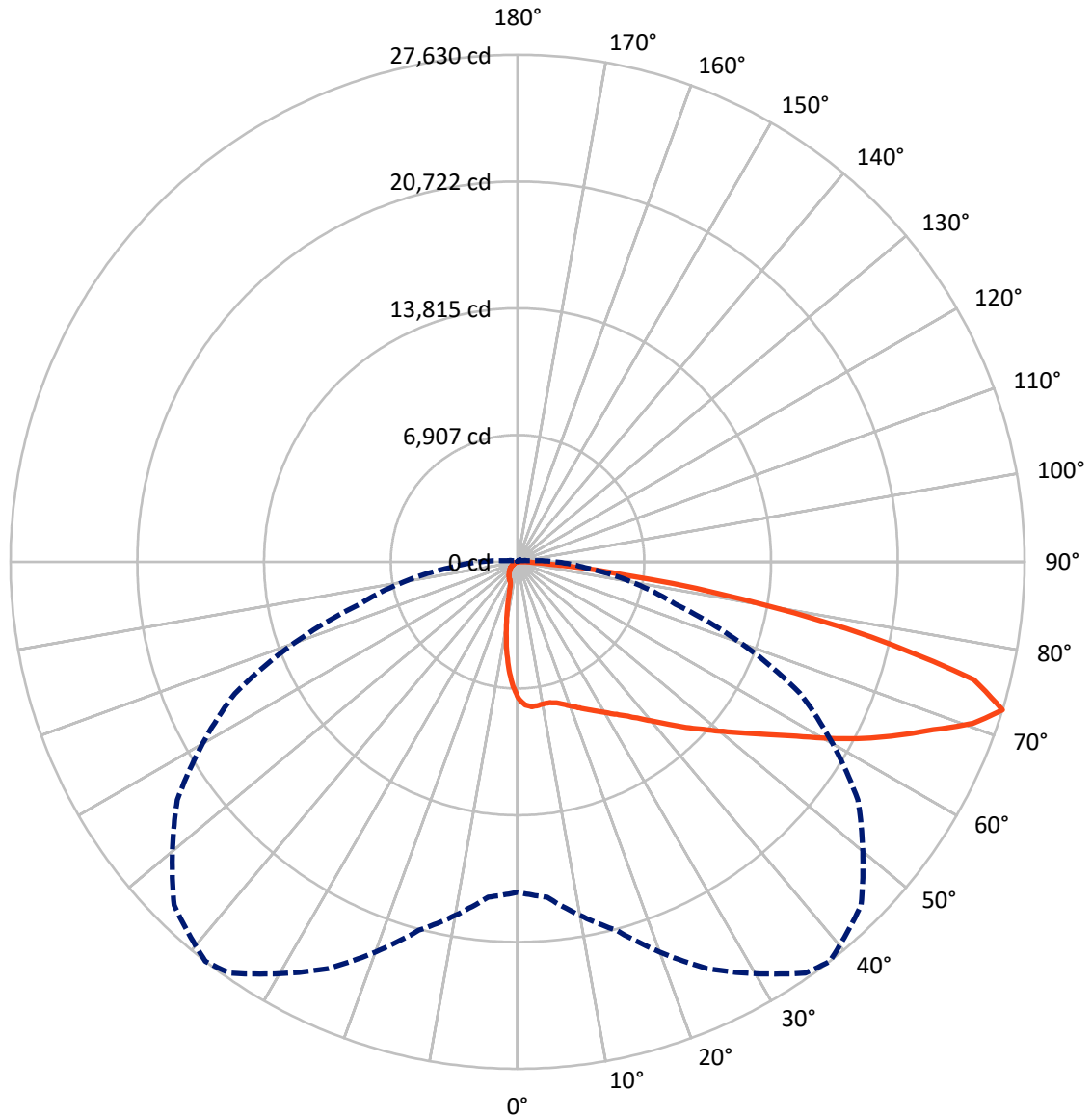
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3413.6	0.0	3413.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	37150.4	0.0	37150.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	40564.0	0.0	40564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.7	1.6
10°-20°	1554.4	3.8
20°-30°	2472.3	6.1
30°-40°	3716.8	9.2
40°-50°	5670.3	14.0
50°-60°	8014.0	19.8
60°-70°	10052.2	24.8
70°-80°	7516.3	18.5
80°-90°	932.0	2.3
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°	40564.0	100.0
0°-180°	40564.0	100.0

Coefficient of Utilization



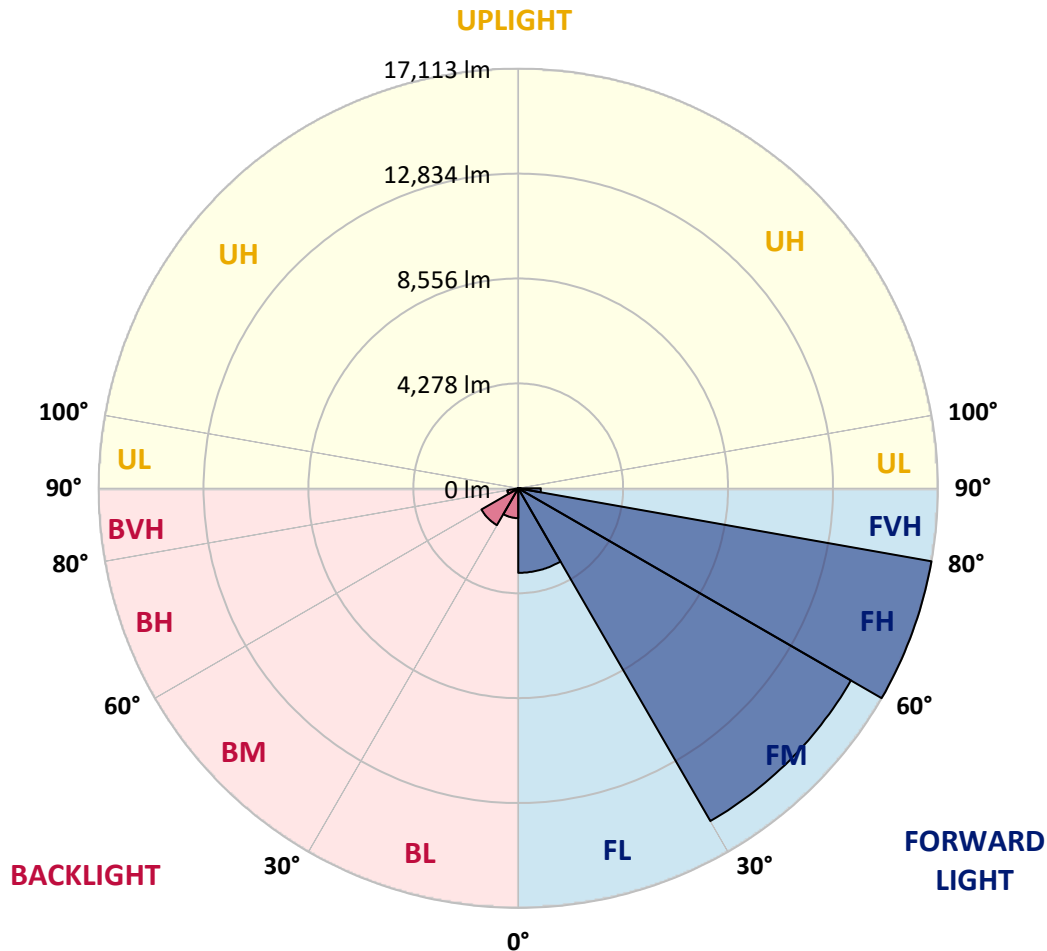
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3447.0	8.5			
FM (30°-60°)	15667.6	38.6			
FH (60°-80°)	17112.5	42.2			G5
FVH (80°-90°)	923.3	2.3			G5
BL (0°-30°)	1215.5	3.0	B3/2500		
BM (30°-60°)	1733.5	4.3	B2/2500		
BH (60°-80°)	456.0	1.1	B1/500		G1/500
BVH (80°-90°)	8.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7459.6	7459.6	7459.6	7459.6	7459.6	7459.6	7459.6	7459.6	7459.6	7459.6	7459.6
2.5°	7917.8	7919.5	7901.0	7870.6	7831.9	7811.7	7778.0	7724.1	7666.8	7564.0	7452.8
5°	8079.5	8079.5	8055.9	8015.5	7953.2	7934.7	7870.6	7784.7	7666.8	7500.0	7313.0
7.5°	8062.7	8066.1	8034.0	7991.9	7929.6	7912.8	7835.3	7739.2	7592.7	7390.5	7151.3
10°	7975.1	7983.5	7958.2	7938.0	7880.7	7862.2	7789.8	7693.8	7547.2	7331.6	7057.0
12.5°	7885.8	7894.2	7902.6	7921.2	7885.8	7879.1	7821.8	7740.9	7601.1	7377.0	7067.1
15°	7828.5	7845.4	7906.0	7978.5	7986.9	7980.1	7943.1	7867.3	7725.8	7493.3	7139.5
17.5°	7828.5	7855.5	7981.8	8120.0	8168.8	8173.9	8141.9	8035.7	7867.3	7617.9	7206.9
20°	7894.2	7931.3	8128.4	8323.8	8404.7	8404.7	8342.3	8194.1	7997.0	7730.8	7252.4
22.5°	8062.7	8111.5	8359.2	8584.9	8670.8	8652.3	8568.1	8352.4	8131.8	7858.8	7309.7
25°	8394.6	8431.6	8689.4	8916.8	8969.0	8926.9	8820.8	8544.5	8303.6	8032.4	7414.1
27.5°	8822.5	8827.5	9093.7	9285.7	9253.7	9225.1	9092.0	8785.4	8551.2	8280.0	7594.4
30°	9292.5	9292.5	9526.6	9673.2	9575.5	9551.9	9418.8	9076.8	8867.9	8616.9	7850.4
32.5°	9747.3	9767.5	9957.9	10050.6	9941.1	9917.5	9787.8	9445.8	9289.1	9130.7	8249.7
35°	10187.0	10202.2	10382.4	10433.0	10328.5	10335.3	10242.6	9952.9	9893.9	9873.7	8851.1
37.5°	10613.2	10616.6	10800.2	10832.2	10780.0	10837.3	10845.7	10589.6	10699.1	10862.6	9698.5
40°	11002.4	11005.8	11187.7	11270.2	11359.5	11433.7	11499.4	11362.9	11725.1	12104.1	10707.6
42.5°	11314.0	11349.4	11580.2	11736.9	11972.7	12114.2	12292.8	12286.1	12946.5	13515.9	11927.3
45°	11588.6	11649.3	11971.1	12245.6	12650.0	12875.7	13155.4	13374.4	14321.1	15087.6	13162.1
47.5°	11950.8	12008.1	12375.4	12825.2	13364.2	13660.7	14124.0	14597.4	15832.2	16630.8	14368.3
50°	12461.3	12436.0	12798.2	13443.4	14135.8	14525.0	15185.3	15894.6	17331.6	17975.1	15077.5
52.5°	13005.4	12995.3	13263.2	14115.6	15045.5	15500.4	16373.0	17235.6	18765.2	18901.7	15402.7
55°	13679.3	13606.8	13832.6	14882.1	16125.4	16613.9	17641.6	18563.0	19907.4	19423.9	15566.1
57.5°	14385.1	14265.5	14481.2	15736.2	17343.4	17921.2	19046.5	19856.9	20667.2	19781.0	15564.4
60°	15114.6	14973.1	15229.1	16804.3	18856.2	19525.0	20569.5	20731.2	21376.4	19961.3	15449.8
62.5°	15724.4	15640.2	16020.9	17946.5	20545.9	21202.9	21720.1	21526.3	21974.4	20101.1	15182.0
65°	16369.6	16374.7	16989.6	19279.0	22341.7	22784.8	22828.6	22557.3	22474.8	20072.5	14275.6
67.5°	17242.3	17323.2	18349.1	21088.3	24088.7	24430.6	24427.3	23674.2	22840.3	18933.7	12265.9
70°	18165.5	18355.8	19915.8	23158.7	25995.7	26342.7	26164.1	24385.2	21506.1	15310.0	8680.9
72.5°	18010.5	18340.7	20786.8	24464.3	27365.3	27629.8	26469.1	22638.2	16998.0	8898.3	3696.1
75°	13894.9	14277.3	19060.0	23170.5	25928.3	25690.8	22742.6	17616.3	9289.1	2483.2	832.2
77.5°	7340.0	7543.8	12591.0	17651.7	20217.4	19720.4	16020.9	9772.6	2831.9	614.9	374.0
80°	3844.3	3891.5	5486.9	10015.2	12478.1	12481.5	9494.6	4292.5	1167.5	315.0	251.0
82.5°	2058.6	2099.1	2899.3	4627.7	6538.1	5926.6	3635.5	2361.9	678.9	178.6	240.9
85°	495.3	503.7	1644.2	2114.2	2570.8	1836.3	1079.9	1982.8	183.6	104.4	195.4
87.5°	190.4	193.7	609.8	914.8	655.3	424.5	505.4	739.6	23.6	40.4	30.3
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°	7459.6	7459.6	7459.6	7459.6	7459.6	7459.6	7459.6	7459.6	7459.6	7459.6	7459.6
2.5°	7385.5	7341.7	7233.8	7097.4	6976.1	6888.5	6757.1	6671.2	6613.9	6612.2	6590.3
5°	7198.5	7109.2	6876.7	6600.4	6349.4	6123.7	5857.5	5646.9	5490.2	5465.0	5411.1
7.5°	6998.0	6851.4	6494.3	6063.0	5641.9	5214.0	4717.0	4408.7	4144.2	4017.9	4004.4
10°	6875.0	6669.5	6162.4	5539.1	4878.7	4183.0	3532.7	3082.9	2757.8	2665.1	2596.0
12.5°	6849.7	6578.5	5906.3	5047.2	4103.8	3184.0	2464.6	1986.2	1726.8	1644.2	1622.3
15°	6875.0	6536.4	5690.7	4560.3	3318.7	2259.1	1654.3	1376.4	1278.6	1255.1	1253.4
17.5°	6890.2	6485.9	5446.4	4019.6	2557.3	1613.9	1266.8	1186.0	1170.8	1169.1	1172.5
20°	6888.5	6408.4	5155.0	3416.4	1902.0	1268.5	1145.6	1128.7	1125.3	1127.0	1125.3
22.5°	6876.7	6317.4	4834.9	2794.8	1437.0	1133.8	1093.3	1083.2	1081.5	1081.5	1081.5
25°	6898.6	6245.0	4482.8	2200.1	1184.3	1071.4	1046.2	1037.7	1036.1	1036.1	1032.7
27.5°	6977.8	6204.5	4097.0	1693.1	1069.7	1015.8	995.6	993.9	988.9	987.2	990.6
30°	7105.8	6204.5	3674.2	1317.4	1000.7	958.6	943.4	940.0	938.3	936.7	938.3
32.5°	7331.6	6251.7	3212.6	1095.0	935.0	894.5	884.4	889.5	884.4	884.4	884.4
35°	7739.2	6393.2	2729.1	955.2	865.9	832.2	822.1	828.8	825.5	825.5	823.8
37.5°	8333.9	6656.0	2242.3	871.0	805.3	769.9	756.4	766.5	763.1	763.1	761.5
40°	9058.3	7038.4	1779.0	806.9	746.3	709.2	697.4	702.5	694.1	694.1	697.4
42.5°	9952.9	7523.6	1374.7	744.6	687.3	652.0	645.2	640.2	625.0	616.6	618.3
45°	10946.8	8029.0	1071.4	684.0	631.7	603.1	593.0	579.5	554.2	537.4	539.1
47.5°	11834.6	8418.1	871.0	625.0	581.2	559.3	544.1	518.9	481.8	461.6	463.3
50°	12301.2	8477.1	741.2	566.0	534.0	512.1	490.2	451.5	407.7	385.8	384.1
52.5°	12420.9	8200.8	645.2	512.1	486.9	461.6	433.0	380.7	331.9	308.3	304.9
55°	12464.7	7779.7	559.3	461.6	436.3	407.7	370.6	311.7	266.2	242.6	240.9
57.5°	12319.8	7151.3	491.9	416.1	385.8	350.4	304.9	249.3	205.5	187.0	187.0
60°	11998.0	6300.6	439.7	367.3	333.6	293.1	246.0	193.7	153.3	138.1	138.1
62.5°	11356.2	5198.8	390.8	316.7	284.7	242.6	198.8	146.6	107.8	99.4	101.1
65°	10144.9	3943.7	342.0	271.2	242.6	200.5	155.0	104.4	72.4	72.4	75.8
67.5°	8273.3	2739.2	291.4	230.8	208.9	163.4	117.9	72.4	50.5	57.3	64.0
70°	5476.8	1536.4	249.3	190.4	178.6	129.7	87.6	48.9	40.4	53.9	65.7
72.5°	2067.1	598.0	208.9	153.3	155.0	99.4	62.3	37.1	37.1	59.0	77.5
75°	576.1	293.1	149.9	112.9	121.3	72.4	45.5	32.0	35.4	67.4	91.0
77.5°	338.6	215.6	97.7	65.7	82.5	50.5	30.3	25.3	30.3	57.3	87.6
80°	272.9	114.6	57.3	33.7	45.5	28.6	20.2	15.2	8.4	21.9	45.5
82.5°	272.9	69.1	27.0	23.6	23.6	15.2	10.1	6.7	1.7	0.0	11.8
85°	183.6	28.6	16.8	15.2	11.8	5.1	3.4	1.7	0.0	0.0	0.0
87.5°	30.3	11.8	6.7	3.4	1.7	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)