

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: P193198

Luminaire Tested: **GAN-AF-10-LED-U-T3-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-T3-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56995.1 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

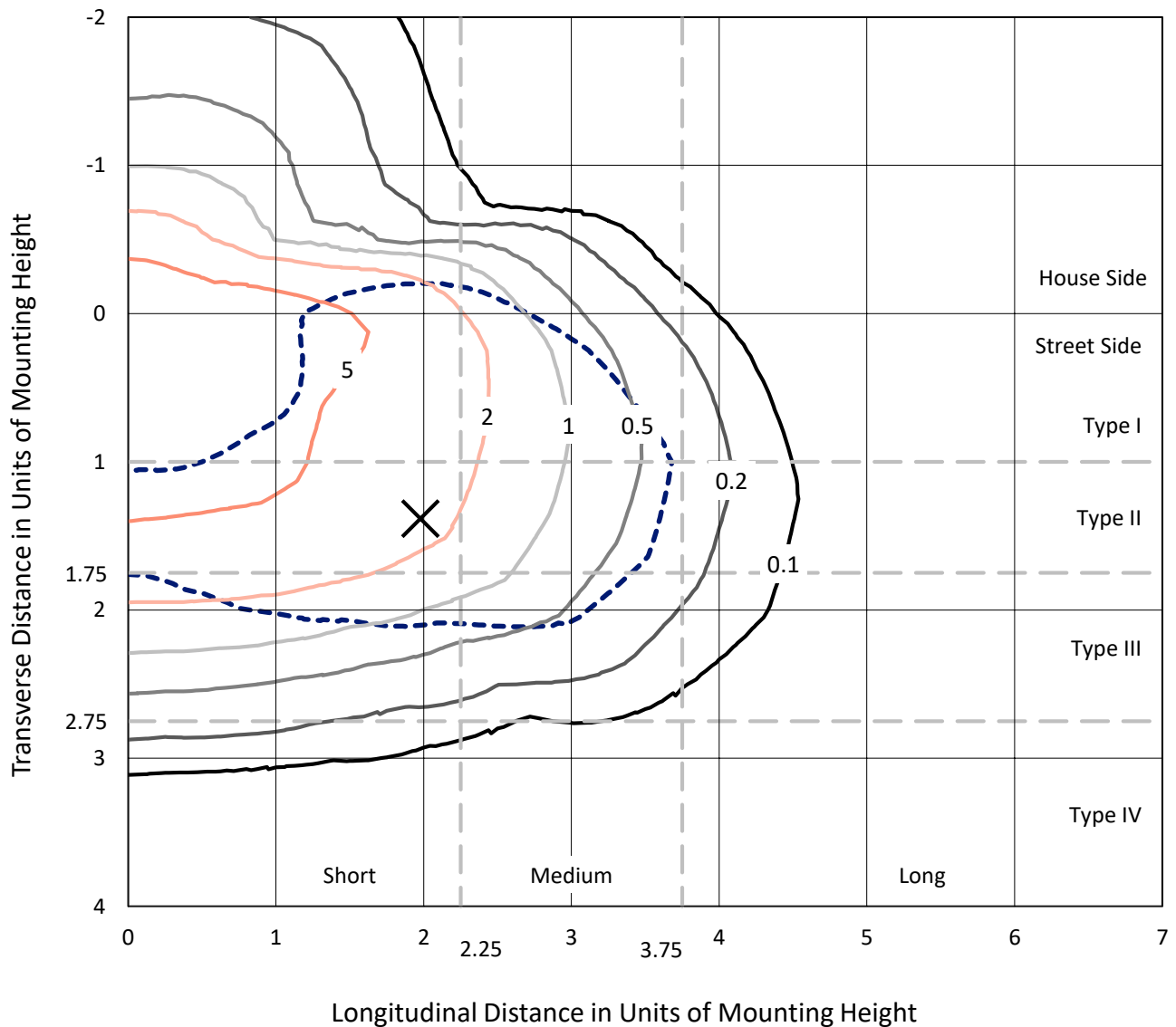
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

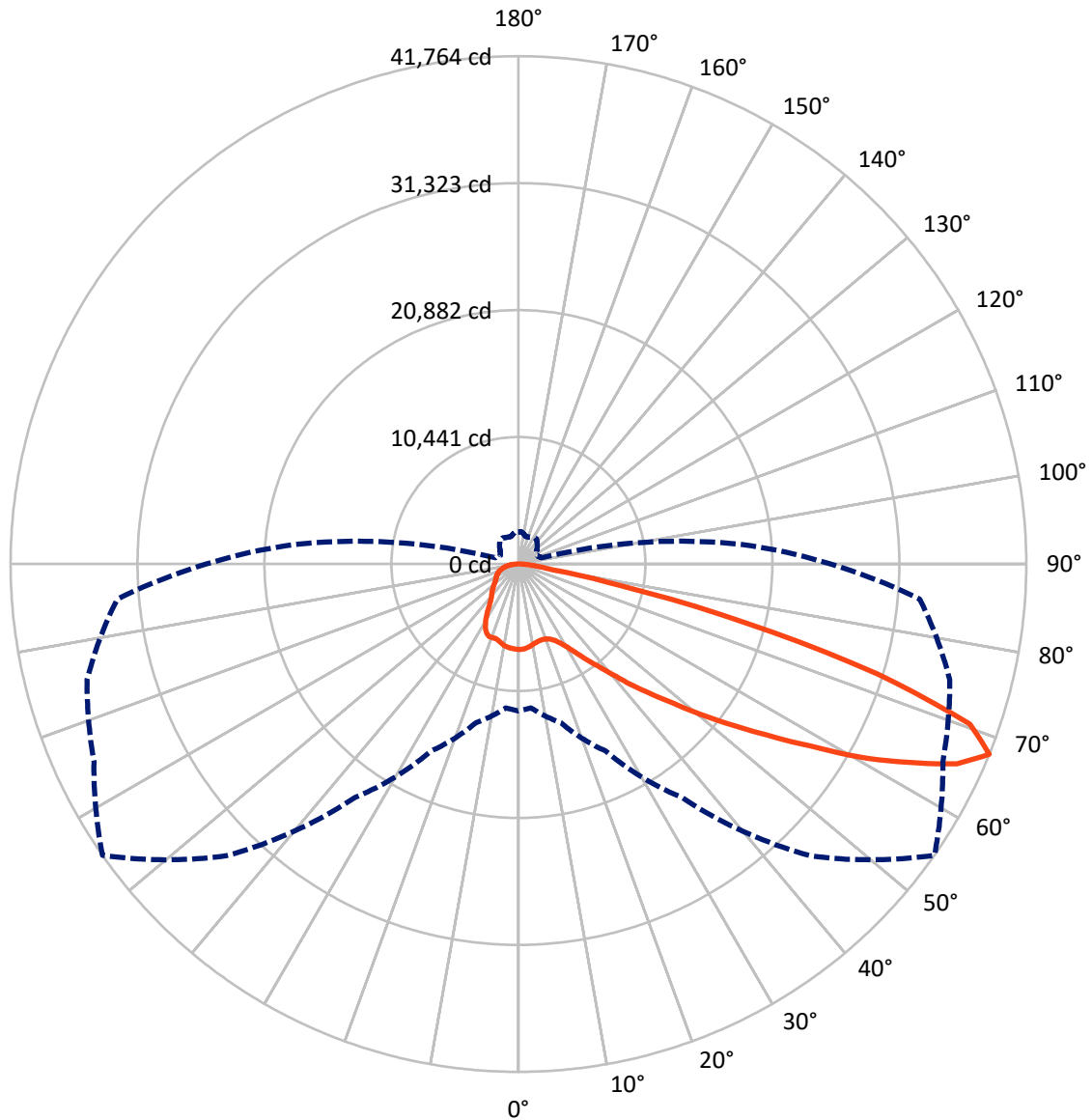
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12312.2	0.0	12312.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	44682.9	0.0	44682.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	56995.1	0.0	56995.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.0	1.2
10°-20°	1857.9	3.3
20°-30°	3112.2	5.5
30°-40°	5117.8	9.0
40°-50°	8614.8	15.1
50°-60°	13559.1	23.8
60°-70°	16181.3	28.4
70°-80°	6948.5	12.2
80°-90°	947.4	1.7
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°	56995.1	100.0
0°-180°	56995.1	100.0

Coefficient of Utilization



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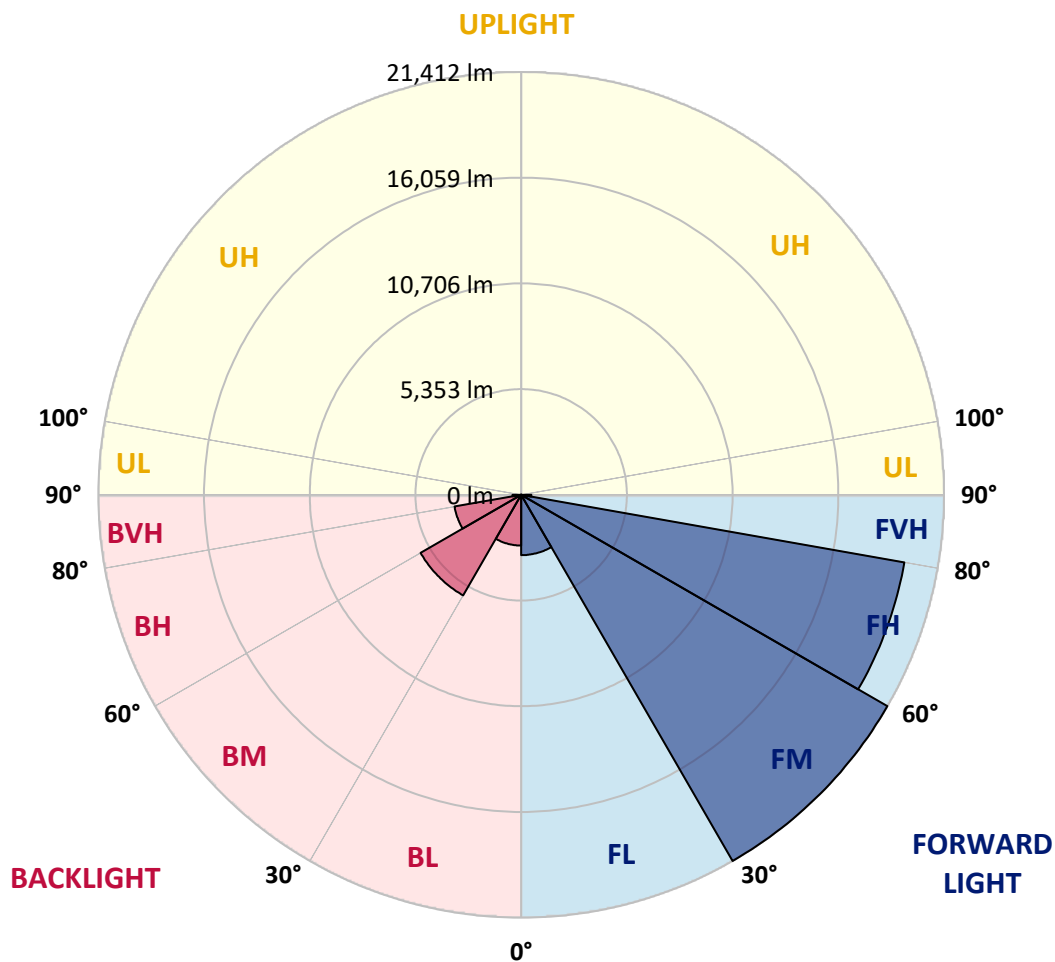
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3055.1	5.4			
FM	(30°-60°)	21411.6	37.6			
FH	(60°-80°)	19703.5	34.6			G5
FVH	(80°-90°)	512.8	0.9			G4/750
BL	(0°-30°)	2571.0	4.5	B4/5000		
BM	(30°-60°)	5880.2	10.3	B4/8500		
BH	(60°-80°)	3426.4	6.0	B4/5000		G4/5000
BVH	(80°-90°)	434.5	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1
2.5°	6967.6	6970.3	6975.7	6997.8	7017.0	7011.6	7014.3	7003.3	7000.6	6984.1	7000.6
5°	6879.5	6887.7	6890.4	6926.3	6948.3	6953.8	6945.5	6931.7	6915.2	6898.7	6907.1
7.5°	6678.5	6700.6	6703.3	6752.9	6788.6	6835.4	6838.2	6840.9	6832.6	6821.6	6838.2
10°	6551.8	6557.4	6554.6	6590.4	6618.0	6670.3	6700.6	6752.9	6774.8	6780.4	6791.3
12.5°	6543.6	6538.1	6529.9	6529.9	6521.5	6543.6	6598.7	6673.0	6725.4	6741.9	6755.6
15°	6631.7	6629.0	6601.5	6560.2	6507.8	6491.3	6538.1	6620.7	6689.5	6725.4	6739.1
17.5°	6829.9	6813.4	6769.3	6675.7	6562.8	6518.9	6524.3	6593.1	6673.0	6719.8	6733.5
20°	7193.3	7193.3	7099.6	6923.5	6722.5	6618.0	6568.3	6609.6	6686.7	6750.0	6769.3
22.5°	7821.0	7826.5	7669.6	7380.5	7041.9	6818.9	6695.0	6686.7	6777.6	6849.1	6871.2
25°	8710.1	8688.1	8467.9	8054.9	7540.2	7171.2	6956.5	6907.1	6984.1	7063.9	7091.5
27.5°	9745.3	9665.4	9403.8	8905.6	8239.3	7699.8	7369.4	7289.7	7364.0	7454.9	7482.3
30°	10769.2	10686.6	10375.6	9830.6	9090.1	8407.3	7933.9	7804.4	7909.1	8038.4	8054.9
32.5°	11793.3	11793.3	11446.5	10810.5	10004.0	9252.4	8685.3	8531.2	8704.5	8861.6	8897.3
35°	13018.4	13023.9	12688.1	11922.7	11055.6	10260.0	9635.1	9522.3	9783.7	9893.9	9979.2
37.5°	14524.3	14554.5	14122.3	13197.3	12247.6	11410.7	10667.4	10513.3	10774.8	11074.8	11350.2
40°	16151.1	16189.7	15713.4	14573.8	13624.1	12748.6	11944.8	11666.7	12101.7	12674.3	13029.3
42.5°	17703.9	17902.0	17442.2	16269.6	15248.2	14342.6	13527.7	13123.0	13668.2	14532.5	14840.8
45°	19947.5	20090.6	19289.5	18226.8	17266.1	16253.1	15173.9	14747.2	15509.8	16599.9	16663.2
47.5°	21442.2	21334.8	20927.4	20266.7	19658.4	18711.4	17087.2	16619.2	17632.3	18915.1	18560.0
50°	22237.9	22270.9	22215.8	22254.4	22276.4	21681.7	19432.7	18791.2	19999.7	21549.6	20732.0
52.5°	22981.0	22760.9	22942.6	23845.5	24935.5	24715.4	21984.5	21315.6	22537.9	24473.2	23027.9
55°	22964.5	22628.6	23220.6	24814.5	27179.3	27432.5	24850.3	24079.5	25222.0	27608.7	25461.4
57.5°	22152.5	22169.0	23080.2	25166.9	28742.9	29987.2	28175.8	27019.6	28068.3	30785.6	27683.0
60°	21034.8	21186.3	22499.3	25109.1	29995.5	32082.2	32255.5	30188.2	30857.1	33673.2	29522.0
62.5°	19231.7	19391.4	21202.8	24508.9	29805.5	34100.1	35944.4	33783.4	33772.4	35424.1	30061.5
65°	16387.9	16341.2	18243.3	22265.3	28211.7	35592.1	39608.5	36891.4	35969.2	35451.7	28976.8
67.5°	12085.1	11875.9	13508.4	16957.8	23449.1	33921.0	41764.1	38510.2	36718.0	33120.0	25662.4
70°	6271.1	6061.8	7383.2	9902.1	15421.6	26474.5	39377.2	37673.2	35063.5	27762.9	20104.4
72.5°	2681.3	2645.5	3182.2	4344.0	7460.3	15270.3	30876.3	32607.9	30086.2	20685.2	13822.3
75°	1803.1	1792.2	1993.1	2367.4	3355.8	6196.7	19322.5	23146.2	22012.0	12825.7	7774.2
77.5°	1415.0	1401.2	1519.6	1701.2	2174.8	2444.5	8575.2	12426.5	11501.5	5582.8	3402.6
80°	1106.7	1095.7	1169.9	1269.0	1563.6	1541.6	2821.7	4944.2	3826.5	2139.0	1654.5
82.5°	872.7	872.7	933.2	936.1	1109.4	1051.6	1472.9	2177.5	1910.5	1247.0	1013.1
85°	798.3	798.3	861.6	699.3	724.1	663.4	914.0	1291.1	1211.2	512.0	440.5
87.5°	402.0	390.9	724.1	619.4	393.7	352.4	446.0	624.9	671.7	283.5	220.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1
2.5°	6995.1	6992.4	6997.8	7000.6	7022.6	7052.9	7066.7	7085.9	7096.9	7091.5
5°	6912.5	6918.0	6940.0	6956.5	6995.1	7044.6	7072.2	7094.2	7113.5	7105.2
7.5°	6843.7	6857.4	6890.4	6904.2	6926.3	6940.0	6937.3	6945.5	6962.0	6942.8
10°	6805.1	6821.6	6846.4	6827.2	6774.8	6700.6	6631.7	6595.9	6606.9	6593.1
12.5°	6766.7	6788.6	6769.3	6678.5	6532.6	6436.3	6383.9	6389.5	6414.2	6419.7
15°	6744.6	6752.9	6670.3	6499.7	6350.9	6337.1	6364.7	6359.2	6361.9	6361.9
17.5°	6744.6	6722.5	6568.3	6397.6	6334.5	6309.6	6224.3	6116.9	6070.1	6053.6
20°	6780.4	6722.5	6535.4	6422.5	6284.8	6072.8	5847.1	5648.9	5560.9	5536.0
22.5°	6887.7	6788.6	6629.0	6433.5	6042.6	5687.5	5329.5	5092.8	4933.2	4905.6
25°	7105.2	6995.1	6813.4	6287.6	5657.2	5150.7	4743.3	4479.0	4319.2	4297.2
27.5°	7485.2	7413.6	6912.5	5965.5	5145.1	4602.9	4225.7	4022.0	3903.7	3895.3
30°	8057.7	8022.0	6862.9	5489.3	4514.7	4071.5	3889.8	3771.4	3683.3	3680.6
32.5°	8971.6	8682.7	6700.6	4908.4	3939.4	3694.4	3620.1	3548.5	3479.7	3479.7
35°	10147.1	9216.7	6392.2	4286.2	3589.7	3485.2	3391.5	3278.7	3187.8	3182.2
37.5°	11529.0	9547.0	5839.0	3785.2	3424.6	3344.8	3207.1	3039.1	2879.5	2852.0
40°	12924.9	9646.1	5059.8	3476.8	3320.0	3204.3	3036.5	2838.2	2684.1	2675.8
42.5°	14204.9	9456.2	4233.9	3264.8	3215.4	3061.2	2885.0	2708.9	2587.7	2585.0
45°	15278.5	8963.4	3540.2	3063.9	3105.2	2931.9	2774.8	2631.7	2538.2	2518.9
47.5°	16288.8	8266.9	3052.9	2852.0	2995.2	2860.3	2728.1	2593.3	2502.4	2488.6
50°	17461.6	7515.4	2711.6	2645.5	2898.7	2835.5	2766.7	2626.3	2474.8	2458.4
52.5°	18882.0	6865.8	2444.5	2463.8	2824.5	2868.5	2865.8	2719.9	2455.6	2433.5
55°	20467.7	6144.4	2243.6	2315.2	2794.2	2929.0	2890.6	2808.0	2472.1	2439.1
57.5°	22028.7	5302.1	2103.2	2202.3	2750.2	2923.6	2772.1	2653.8	2510.7	2463.8
60°	23198.6	4170.7	1995.8	2103.2	2653.8	2832.8	2642.8	2485.8	2502.4	2466.6
62.5°	23275.6	3223.5	1866.4	2017.9	2507.8	2741.9	2557.4	2411.6	2538.2	2505.1
65°	21907.5	2436.3	1742.5	1916.0	2350.9	2684.1	2474.8	2370.3	2612.5	2576.7
67.5°	18444.4	1960.0	1638.1	1811.4	2194.0	2562.9	2400.5	2331.7	2678.6	2615.2
70°	13315.8	1671.0	1536.0	1684.8	2053.6	2425.3	2334.5	2262.9	2499.7	2400.5
72.5°	8198.0	1448.0	1420.5	1516.8	1946.4	2282.1	2235.3	2133.5	2251.9	2172.1
75°	4093.5	1255.3	1291.1	1351.6	1794.9	2119.7	2070.1	1968.3	1984.8	1968.3
77.5°	1960.0	1073.6	1139.7	1186.4	1599.4	1935.3	1883.0	1778.4	1759.1	1761.8
80°	1241.5	897.4	960.7	993.8	1428.8	1720.5	1668.3	1563.6	1783.8	1654.5
82.5°	776.3	729.6	746.0	806.6	1244.4	1497.6	1428.8	1335.1	1607.6	1271.9
85°	429.5	509.2	531.3	583.7	957.9	1252.5	1183.8	1065.4	955.3	938.7
87.5°	256.0	302.8	311.1	349.6	644.2	905.6	801.1	759.8	630.4	627.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)