

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: P319850

Luminaire Tested: **GAN-SA6C-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33619 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

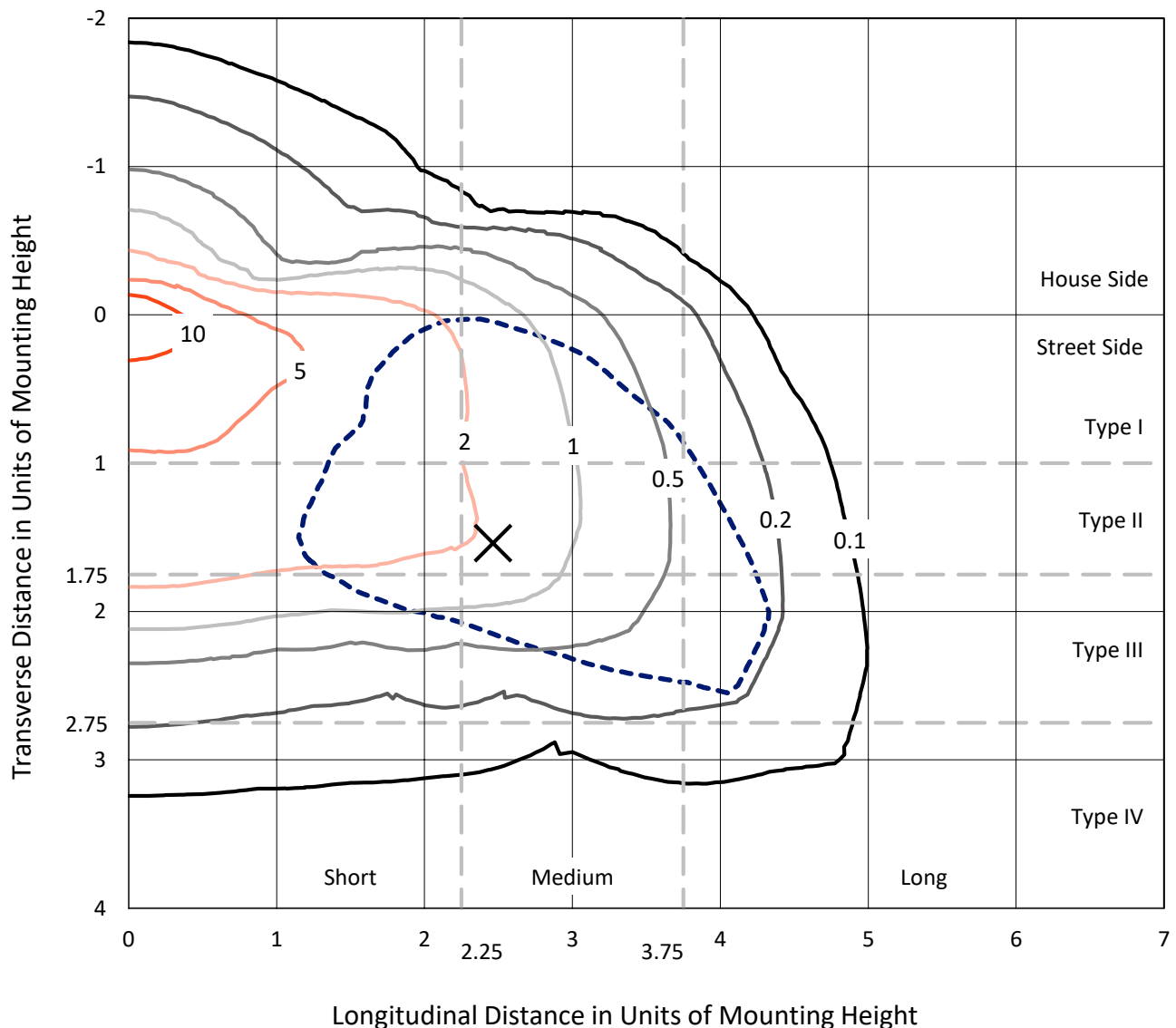
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

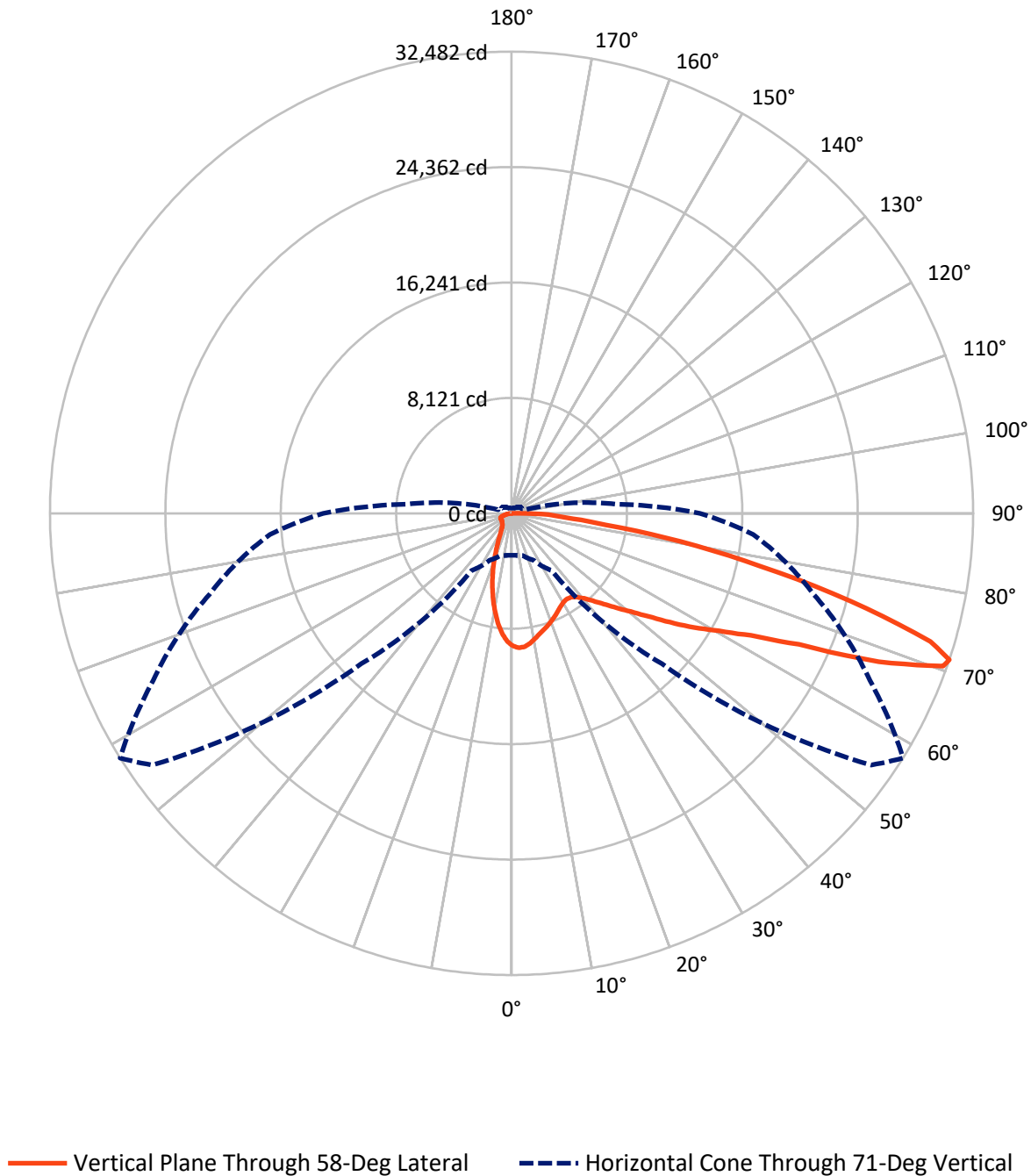
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5026.3	0.0	5026.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	28592.7	0.0	28592.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	33619.0	0.0	33619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.6	2.4
10°-20°	1786.9	5.3
20°-30°	2270.9	6.8
30°-40°	2892.7	8.6
40°-50°	4102.0	12.2
50°-60°	6347.9	18.9
60°-70°	8641.9	25.7
70°-80°	5765.2	17.1
80°-90°	1007.9	3.0
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°	33619.0	100.0
0°-180°	33619.0	100.0

Coefficient of Utilization



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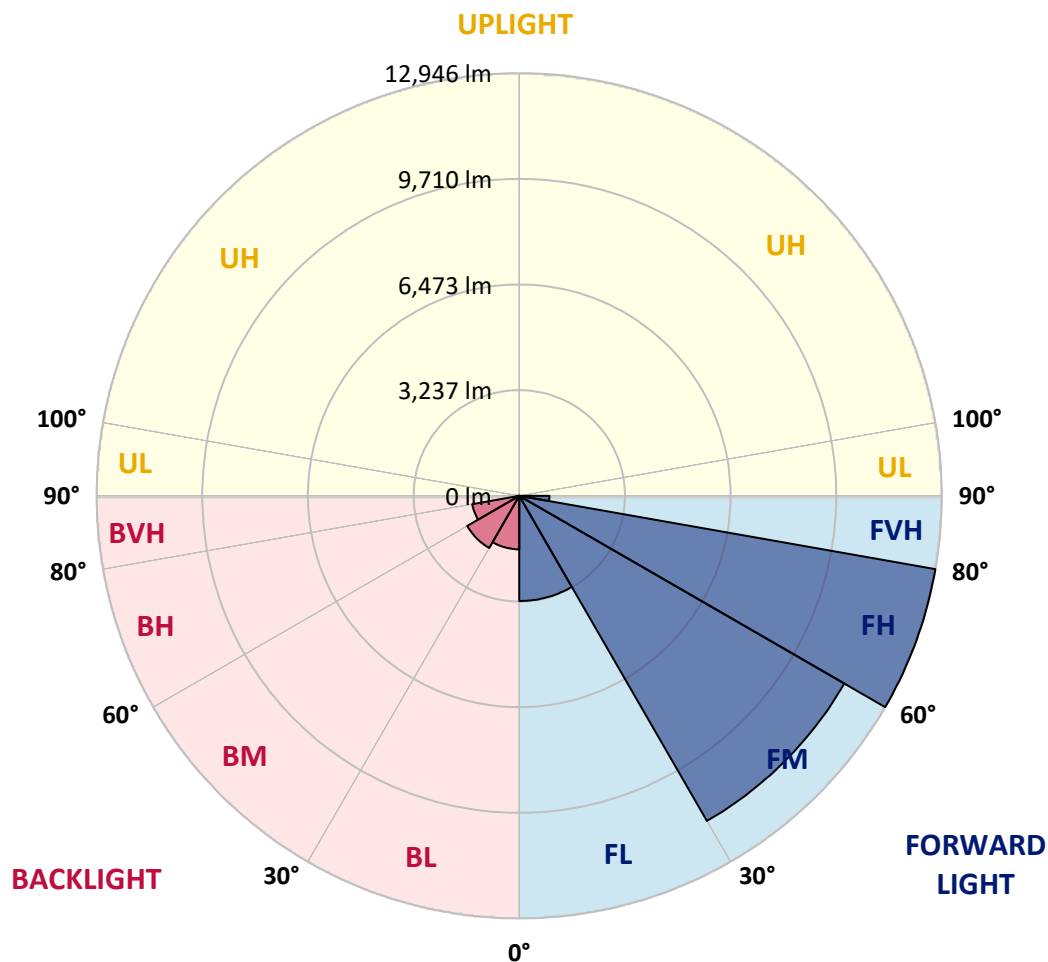
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3222.9	9.6			
FM	(30°-60°)	11499.3	34.2			
FH	(60°-80°)	12946.3	38.5			G5
FVH	(80°-90°)	924.2	2.7			G5
BL	(0°-30°)	1638.4	4.9	B3/2500		
BM	(30°-60°)	1843.3	5.5	B2/2500		
BH	(60°-80°)	1460.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	83.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9314.7	9314.7	9314.7	9314.7	9314.7	9314.7	9314.7	9314.7	9314.7	9314.7	9314.7
2.5°	9561.8	9548.9	9553.6	9544.2	9522.0	9499.7	9466.9	9472.8	9427.1	9359.2	9274.9
5°	9381.5	9376.8	9411.9	9431.8	9448.2	9435.3	9426.0	9437.7	9370.9	9277.2	9130.9
7.5°	9003.2	8951.7	8996.2	9062.9	9126.2	9174.2	9237.4	9245.6	9203.5	9105.1	8913.0
10°	8465.7	8416.5	8482.1	8586.3	8712.8	8827.5	8955.2	8978.6	8986.8	8897.8	8664.8
12.5°	7908.3	7870.8	7936.4	8082.7	8292.4	8469.2	8673.0	8708.1	8780.7	8721.0	8435.2
15°	7409.4	7395.3	7475.0	7619.0	7860.2	8130.8	8424.7	8489.1	8612.1	8592.2	8256.1
17.5°	6978.4	6974.9	7035.8	7186.9	7453.9	7795.8	8177.6	8286.5	8469.2	8492.6	8108.5
20°	6657.5	6650.5	6692.7	6803.9	7079.1	7466.8	7910.6	8060.5	8324.0	8406.0	7956.3
22.5°	6485.4	6484.2	6485.4	6538.1	6762.9	7123.6	7650.6	7833.3	8182.3	8336.9	7787.6
25°	6456.1	6452.6	6426.8	6421.0	6548.6	6836.7	7393.0	7594.4	8047.6	8288.9	7627.2
27.5°	6532.2	6536.9	6503.0	6447.9	6473.7	6648.2	7169.3	7384.8	7939.9	8279.5	7515.9
30°	6690.3	6688.0	6658.7	6601.3	6551.0	6577.9	7010.0	7225.5	7867.3	8320.5	7439.8
32.5°	6864.8	6877.7	6871.9	6840.2	6765.3	6657.5	6962.0	7172.8	7846.2	8418.8	7407.0
35°	7074.4	7088.5	7130.7	7155.3	7067.4	6894.1	7065.1	7247.8	7907.1	8603.9	7459.7
37.5°	7273.5	7309.8	7428.1	7532.3	7457.4	7264.2	7339.1	7469.1	8095.6	8895.5	7601.4
40°	7503.1	7534.7	7727.9	7949.2	7937.5	7737.3	7780.6	7867.3	8428.2	9313.5	7857.9
42.5°	7729.1	7792.3	8072.2	8386.0	8476.2	8299.4	8368.5	8414.2	8896.6	9867.5	8305.2
45°	8030.0	8098.0	8486.8	8865.0	9075.8	8976.3	9086.4	9103.9	9485.7	10621.6	8955.2
47.5°	8485.6	8562.9	9016.1	9413.1	9735.1	9745.7	9927.2	9920.2	10221.1	11484.7	9773.8
50°	9195.3	9306.5	9677.7	10049.0	10440.1	10657.9	10900.3	10866.4	11102.9	12404.0	10716.5
52.5°	10125.1	10176.6	10451.8	10725.9	11211.8	11700.2	12048.0	12017.5	12103.0	13349.1	11786.8
55°	11088.9	11127.5	11241.1	11391.0	12044.5	12840.8	13576.2	13528.2	13311.6	14330.4	12844.3
57.5°	11955.5	12033.9	12112.4	12174.5	12883.0	14033.0	15139.6	15143.1	14623.2	15389.1	13936.9
60°	12090.2	12159.2	12678.0	13167.5	14317.5	15623.3	16813.1	16778.0	15980.5	16537.9	15154.8
62.5°	10687.2	10843.0	11709.6	13011.8	15699.4	18532.2	18948.0	18904.6	17603.6	17953.7	16573.0
65°	7658.8	7835.6	8881.4	10838.3	15029.5	21737.4	22800.8	22217.6	19816.9	19695.1	18233.6
67.5°	4418.5	4460.6	4913.8	6485.4	11443.7	21904.9	28678.4	27862.2	23254.0	21670.7	19046.3
70°	3267.3	3266.1	3373.9	3991.0	6192.6	17877.6	31473.7	32205.7	26872.6	22320.6	17897.5
71°	2954.6	2958.1	3078.7	3632.7	4904.5	14964.0	30880.0	32482.0	27825.9	21999.8	17066.0
72.5°	2527.2	2538.9	2706.3	3257.9	4125.7	10319.5	28322.4	30823.8	28277.9	21208.1	15765.0
75°	1917.0	1944.0	2175.9	2746.2	3770.9	5233.5	20786.5	24613.6	25120.7	18713.7	11714.2
77.5°	1367.8	1398.3	1660.6	2309.4	3584.7	3944.2	13920.5	17953.7	18486.6	11993.0	5283.9
80°	864.3	900.6	1098.5	1837.4	3368.0	3745.1	8747.9	12067.9	10080.6	3837.6	1344.4
82.5°	507.1	535.2	681.6	1200.3	2750.8	3606.9	5146.9	6689.2	3923.1	1159.4	611.3
85°	293.9	306.8	425.1	764.7	1997.8	3404.3	3781.4	3739.2	1702.7	566.8	289.3
87.5°	137.0	152.2	251.8	399.3	1109.0	2467.4	2988.6	2582.2	1058.6	265.8	135.8
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°	9314.7	9314.7	9314.7	9314.7	9314.7	9314.7	9314.7	9314.7	9314.7	9314.7	9314.7
2.5°	9233.9	9214.0	9130.9	9057.1	8979.8	8879.1	8767.8	8753.8	8685.8	8698.7	8675.3
5°	9051.2	9000.9	8800.6	8619.1	8404.8	8212.7	8004.3	7908.3	7770.1	7760.7	7725.6
7.5°	8790.1	8696.4	8386.0	8041.8	7697.5	7369.6	7045.2	6832.0	6614.2	6521.7	6513.5
10°	8496.1	8336.9	7880.1	7370.7	6874.2	6395.2	5931.5	5588.4	5279.2	5132.8	5127.0
12.5°	8217.4	7982.0	7355.5	6662.2	5983.0	5362.3	4726.4	4275.6	3888.0	3758.0	3702.9
15°	7980.9	7649.4	6844.9	5958.4	5134.0	4272.1	3548.3	3074.1	2715.7	2591.6	2568.2
17.5°	7751.3	7325.1	6321.4	5247.6	4251.0	3303.6	2578.7	2226.2	2035.3	1985.0	1983.8
20°	7523.0	6991.3	5774.6	4520.3	3397.3	2471.0	1982.6	1824.5	1760.1	1754.3	1744.9
22.5°	7264.2	6637.6	5199.6	3790.8	2651.3	1942.8	1685.2	1621.9	1613.7	1634.8	1634.8
25°	7021.8	6286.3	4616.4	3076.4	2062.3	1620.8	1504.8	1491.9	1514.2	1551.7	1555.2
27.5°	6795.7	5947.9	4047.2	2441.7	1652.4	1427.5	1379.5	1394.7	1434.6	1477.9	1479.1
30°	6609.5	5628.2	3494.5	1924.1	1395.9	1283.5	1275.3	1305.7	1349.1	1383.0	1391.2
32.5°	6465.5	5355.3	2960.5	1547.0	1228.5	1175.8	1182.8	1208.5	1235.5	1254.2	1267.1
35°	6398.7	5121.1	2467.4	1304.6	1121.9	1092.6	1102.0	1116.0	1127.7	1141.8	1152.3
37.5°	6410.5	4939.6	2027.1	1153.5	1050.5	1035.2	1035.2	1035.2	1035.2	1042.3	1043.4
40°	6519.4	4835.4	1668.8	1057.5	1002.4	986.0	973.2	961.5	952.1	956.8	954.4
42.5°	6798.1	4826.0	1406.5	996.6	963.8	936.9	911.1	894.7	883.0	887.7	890.0
45°	7271.2	4943.1	1229.6	953.3	927.5	886.5	853.7	836.1	827.9	843.2	845.5
47.5°	7883.7	5198.4	1121.9	921.6	893.5	839.7	804.5	788.1	790.5	812.7	818.6
50°	8673.0	5613.0	1070.4	901.7	870.1	799.8	763.5	749.5	756.5	788.1	795.2
52.5°	9539.6	6210.2	1076.2	895.9	854.9	770.6	731.9	715.5	727.2	756.5	762.4
55°	10539.7	6928.1	1173.4	904.1	832.6	751.8	706.2	678.1	687.4	714.4	719.0
57.5°	11651.0	7750.2	1369.0	901.7	804.5	734.3	679.2	637.1	644.1	660.5	665.2
60°	12808.0	8743.2	1672.3	908.8	791.6	713.2	642.9	590.2	587.9	601.9	604.3
62.5°	14196.9	9892.0	2018.9	913.4	799.8	686.2	594.9	543.4	536.4	539.9	542.2
65°	15628.0	10723.5	1888.9	894.7	825.6	664.0	552.7	497.7	484.8	482.5	483.7
67.5°	15672.5	9832.3	1324.5	857.2	836.1	652.3	521.1	459.1	438.0	429.8	428.6
70°	14055.2	7987.9	1031.7	817.4	794.0	633.6	491.9	427.4	395.8	382.9	381.8
71°	13265.9	7353.2	977.8	797.5	762.4	614.8	479.0	413.4	380.6	366.5	364.2
72.5°	12028.1	6592.0	912.3	765.9	701.5	566.8	454.4	393.5	359.5	343.1	339.6
75°	8632.0	4310.7	783.4	682.7	580.9	452.0	398.2	353.7	324.4	304.5	302.1
77.5°	3325.8	1715.6	592.6	568.0	445.0	353.7	327.9	305.6	284.6	264.7	263.5
80°	1028.2	767.1	432.1	427.4	322.0	263.5	255.3	249.4	241.2	220.2	215.5
82.5°	549.2	440.3	297.5	276.4	210.8	175.7	185.0	187.4	188.5	166.3	164.0
85°	262.3	233.0	167.5	156.9	123.0	98.4	113.6	123.0	124.1	101.9	94.9
87.5°	125.3	121.8	78.5	59.7	45.7	32.8	39.8	49.2	53.9	38.6	34.0
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)