

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: P319833

Luminaire Tested: **GAN-SA9A-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319833
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-SA9A-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 33110 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

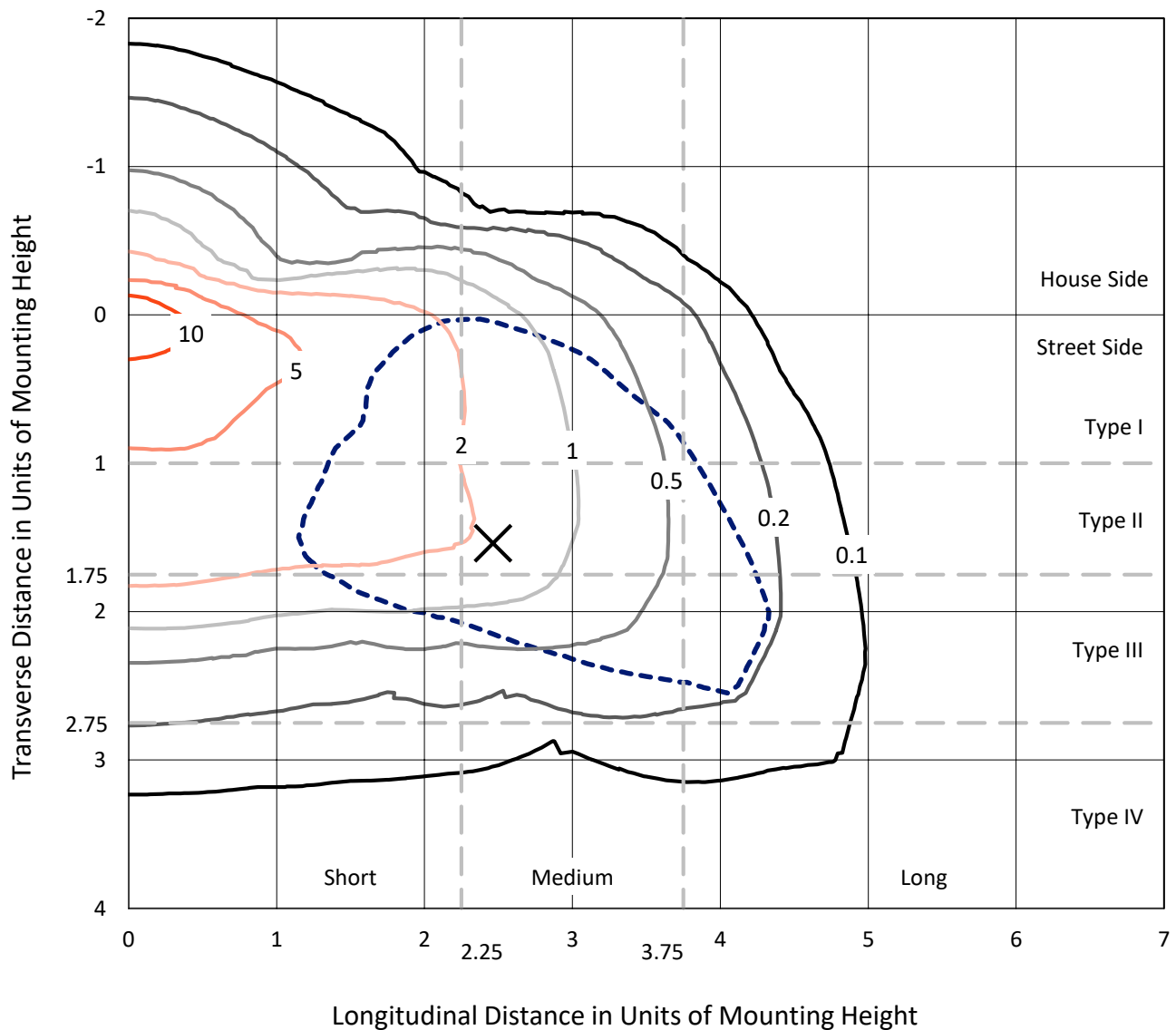
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319833
 CATALOG NUMBER: GAN-SA9A-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

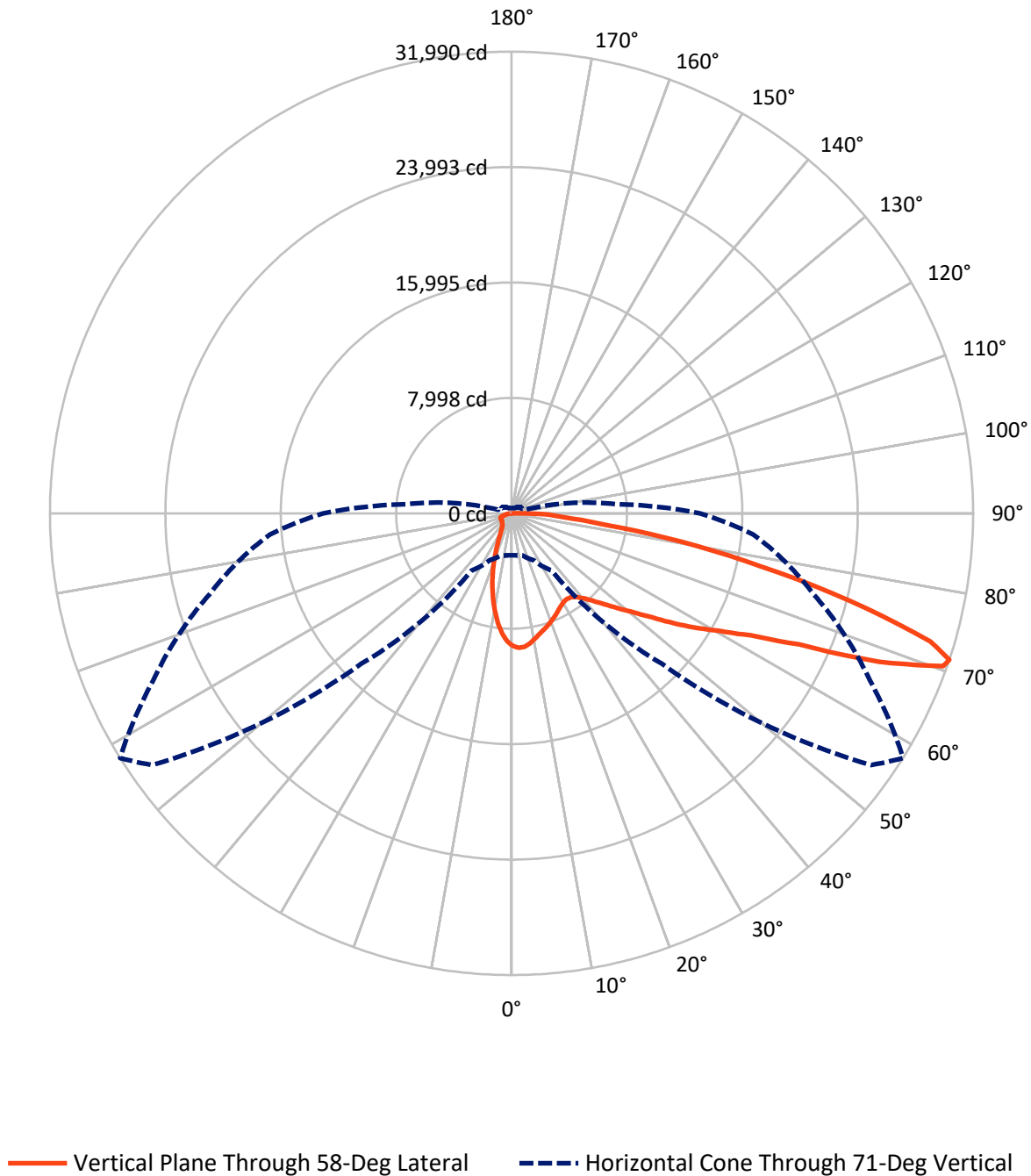
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P319833
CATALOG NUMBER: GAN-SA9A-830-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P319833

CATALOG NUMBER: GAN-SA9A-830-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4950.2	0.0	4950.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	28159.8	0.0	28159.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	33110.0	0.0	33110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.4	2.4
10°-20°	1759.8	5.3
20°-30°	2236.5	6.8
30°-40°	2848.9	8.6
40°-50°	4039.9	12.2
50°-60°	6251.8	18.9
60°-70°	8511.1	25.7
70°-80°	5677.9	17.1
80°-90°	992.7	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°	33110.0	100.0
0°-180°	33110.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319833

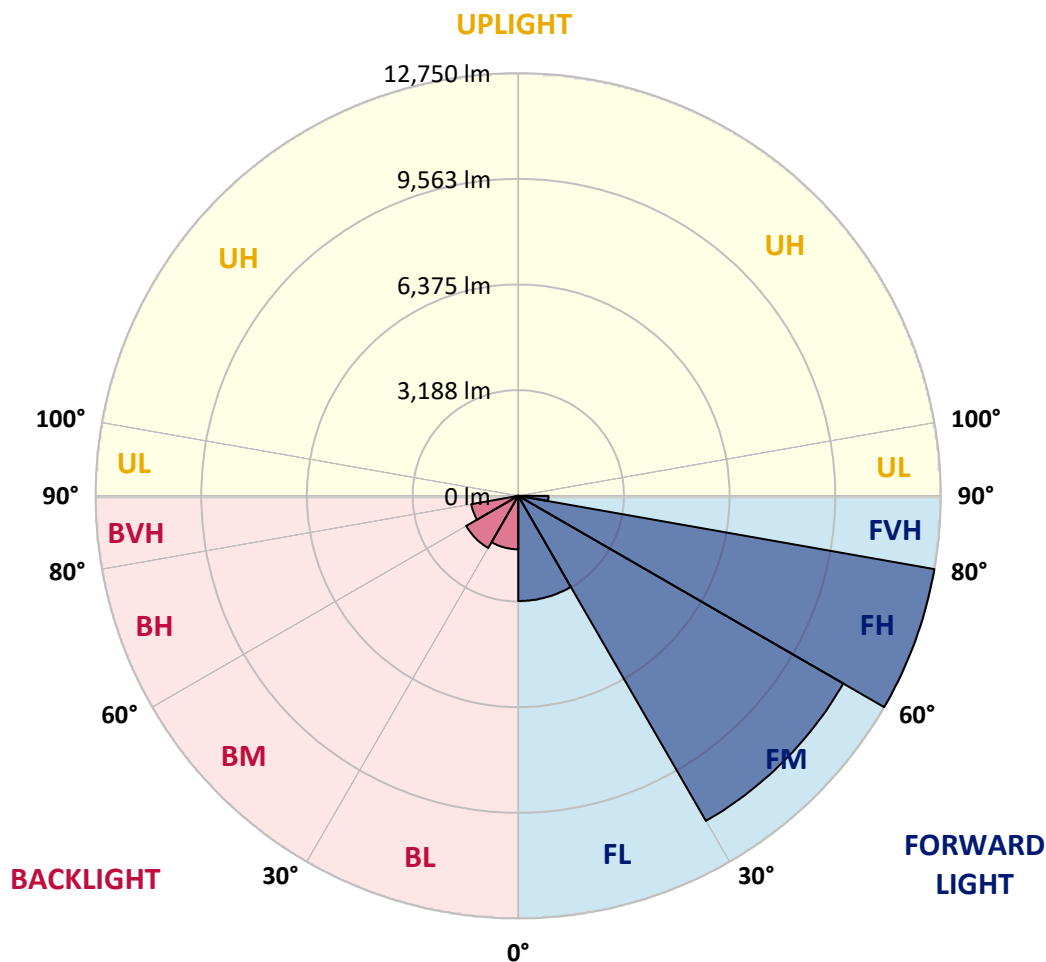
CATALOG NUMBER: GAN-SA9A-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3174.1	9.6			
FM	(30°-60°)	11325.2	34.2			
FH	(60°-80°)	12750.3	38.5			G5
FVH	(80°-90°)	910.2	2.7			G5
BL	(0°-30°)	1613.6	4.9	B3/2500		
BM	(30°-60°)	1815.4	5.5	B2/2500		
BH	(60°-80°)	1438.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	82.5	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





REPORT NUMBER: P319833

CATALOG NUMBER: GAN-SA9A-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9173.7	9173.7	9173.7	9173.7	9173.7	9173.7	9173.7	9173.7	9173.7	9173.7	9173.7
2.5°	9417.0	9404.4	9409.0	9399.7	9377.8	9355.9	9323.6	9329.4	9284.4	9217.5	9134.5
5°	9239.4	9234.8	9269.4	9289.0	9305.2	9292.5	9283.3	9294.8	9229.0	9136.8	8992.6
7.5°	8866.9	8816.1	8860.0	8925.7	8988.0	9035.3	9097.6	9105.6	9064.1	8967.2	8778.1
10°	8337.5	8289.1	8353.7	8456.3	8580.9	8693.9	8819.6	8842.7	8850.7	8763.1	8533.6
12.5°	7788.5	7751.6	7816.2	7960.4	8166.8	8341.0	8541.7	8576.3	8647.8	8588.9	8307.5
15°	7297.2	7283.4	7361.8	7503.6	7741.2	8007.7	8297.1	8360.6	8481.7	8462.1	8131.1
17.5°	6872.8	6869.3	6929.3	7078.1	7341.0	7677.8	8053.8	8161.0	8341.0	8364.0	7985.7
20°	6556.8	6549.8	6591.4	6700.9	6972.0	7353.7	7790.8	7938.5	8198.0	8278.7	7835.8
22.5°	6387.2	6386.1	6387.2	6439.1	6660.6	7015.8	7534.8	7714.7	8058.4	8210.6	7669.7
25°	6358.4	6354.9	6329.5	6323.8	6449.5	6733.2	7281.0	7479.4	7925.8	8163.4	7511.7
27.5°	6433.3	6438.0	6404.5	6350.3	6375.7	6547.5	7060.8	7273.0	7819.7	8154.1	7402.1
30°	6589.0	6586.7	6557.9	6501.4	6451.8	6478.3	6903.9	7116.1	7748.2	8194.5	7327.2
32.5°	6760.9	6773.6	6767.8	6736.7	6662.9	6556.8	6856.6	7064.2	7727.4	8291.4	7294.9
35°	6967.3	6981.2	7022.7	7046.9	6960.4	6789.7	6958.1	7138.0	7787.4	8473.6	7346.8
37.5°	7163.4	7199.2	7315.6	7418.3	7344.5	7154.2	7228.0	7356.0	7973.1	8760.8	7486.3
40°	7389.5	7420.6	7610.9	7828.9	7817.4	7620.1	7662.8	7748.2	8300.6	9172.5	7738.9
42.5°	7612.1	7674.3	7950.0	8259.1	8347.9	8173.7	8241.8	8286.8	8761.9	9718.1	8179.5
45°	7908.5	7975.4	8358.3	8730.8	8938.4	8840.4	8948.8	8966.1	9342.1	10460.8	8819.6
47.5°	8357.1	8433.2	8879.6	9270.6	9587.7	9598.1	9776.9	9770.0	10066.4	11310.8	9625.8
50°	9056.0	9165.6	9531.2	9896.8	10282.0	10496.6	10735.3	10701.9	10934.8	12216.2	10554.2
52.5°	9971.8	10022.5	10293.6	10563.5	11042.1	11523.0	11865.6	11835.6	11919.8	13146.9	11608.4
55°	10921.0	10959.1	11070.9	11218.6	11862.1	12646.4	13370.7	13323.4	13110.0	14113.4	12649.9
57.5°	11774.5	11851.7	11929.0	11990.1	12687.9	13820.5	14910.4	14913.9	14401.8	15156.1	13725.9
60°	11907.1	11975.2	12486.1	12968.2	14100.8	15386.7	16558.5	16523.9	15738.5	16287.5	14925.4
62.5°	10525.4	10678.8	11532.3	12814.8	15461.7	18251.6	18661.1	18618.4	17337.0	17681.9	16322.1
65°	7542.9	7717.0	8746.9	10674.2	14802.0	21408.3	22455.6	21881.2	19516.9	19396.9	17957.5
67.5°	4351.6	4393.1	4839.4	6387.2	11270.5	21573.3	28244.2	27440.3	22901.9	21342.6	18758.0
70°	3217.8	3216.7	3322.8	3930.6	6098.9	17606.9	30997.2	31718.1	26465.7	21982.7	17626.5
71°	2909.9	2913.3	3032.1	3577.7	4830.2	14737.4	30412.5	31990.3	27404.6	21666.7	16807.7
72.5°	2488.9	2500.4	2665.4	3208.6	4063.2	10163.3	27893.6	30357.1	27849.8	20887.0	15526.3
75°	1888.0	1914.5	2142.9	2704.6	3713.8	5154.3	20471.8	24240.9	24740.3	18430.4	11536.9
77.5°	1347.1	1377.1	1635.4	2274.4	3530.4	3884.5	13709.8	17681.9	18206.7	11811.4	5203.9
80°	851.2	886.9	1081.8	1809.6	3317.0	3688.4	8615.5	11885.2	9928.0	3779.5	1324.0
82.5°	499.4	527.1	671.2	1182.2	2709.2	3552.3	5068.9	6587.9	3863.7	1141.8	602.0
85°	289.5	302.2	418.7	753.1	1967.6	3352.8	3724.1	3682.6	1677.0	558.2	284.9
87.5°	134.9	149.9	248.0	393.3	1092.2	2430.1	2943.3	2543.1	1042.6	261.8	133.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P319833

CATALOG NUMBER: GAN-SA9A-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9173.7	9173.7	9173.7	9173.7	9173.7	9173.7	9173.7	9173.7	9173.7	9173.7	9173.7
2.5°	9094.1	9074.5	8992.6	8919.9	8843.8	8744.6	8635.1	8621.2	8554.3	8567.0	8544.0
5°	8914.2	8864.6	8667.4	8488.6	8277.5	8088.4	7883.1	7788.5	7652.4	7643.2	7608.6
7.5°	8657.0	8564.7	8259.1	7920.0	7580.9	7258.0	6938.5	6728.6	6514.1	6423.0	6414.9
10°	8367.5	8210.6	7760.8	7259.1	6770.1	6298.4	5841.7	5503.7	5199.3	5055.1	5049.3
12.5°	8093.0	7861.2	7244.1	6561.4	5892.4	5281.2	4654.9	4210.9	3829.1	3701.1	3646.9
15°	7860.0	7533.6	6741.3	5868.2	5056.3	4207.4	3494.6	3027.5	2674.6	2552.3	2529.3
17.5°	7634.0	7214.2	6225.7	5168.1	4186.6	3253.6	2539.7	2192.5	2004.5	1954.9	1953.8
20°	7409.1	6885.5	5687.1	4451.9	3345.8	2433.6	1952.6	1796.9	1733.5	1727.7	1718.5
22.5°	7154.2	6537.1	5120.8	3733.4	2611.2	1913.4	1659.7	1597.4	1589.3	1610.1	1610.1
25°	6915.4	6191.1	4546.5	3029.8	2031.0	1596.2	1482.0	1469.4	1491.3	1528.2	1531.6
27.5°	6692.8	5857.8	3986.0	2404.7	1627.4	1405.9	1358.6	1373.6	1412.8	1455.5	1456.7
30°	6509.5	5543.0	3441.6	1894.9	1374.8	1264.1	1256.0	1286.0	1328.7	1362.1	1370.2
32.5°	6367.6	5274.2	2915.6	1523.6	1209.9	1158.0	1164.9	1190.2	1216.8	1235.2	1247.9
35°	6301.9	5043.6	2430.1	1284.8	1104.9	1076.1	1085.3	1099.1	1110.7	1124.5	1134.9
37.5°	6313.4	4864.8	1996.4	1136.0	1034.5	1019.6	1019.6	1019.6	1019.6	1026.5	1027.6
40°	6420.7	4762.1	1643.5	1041.5	987.3	971.1	958.4	946.9	937.7	942.3	940.0
42.5°	6695.2	4752.9	1385.2	981.5	949.2	922.7	897.3	881.2	869.6	874.2	876.5
45°	7161.1	4868.3	1211.0	938.8	913.4	873.1	840.8	823.5	815.4	830.4	832.7
47.5°	7764.3	5119.7	1104.9	907.7	880.0	826.9	792.3	776.2	778.5	800.4	806.2
50°	8541.7	5528.0	1054.2	888.1	856.9	787.7	752.0	738.1	745.1	776.2	783.1
52.5°	9395.1	6116.2	1059.9	882.3	841.9	758.9	720.8	704.7	716.2	745.1	750.8
55°	10380.1	6823.2	1155.6	890.4	820.0	740.4	695.5	667.8	677.0	703.5	708.2
57.5°	11474.6	7632.8	1348.3	888.1	792.3	723.1	668.9	627.4	634.3	650.5	655.1
60°	12614.1	8610.9	1647.0	895.0	779.7	702.4	633.2	581.3	579.0	592.8	595.1
62.5°	13982.0	9742.3	1988.4	899.6	787.7	675.9	585.9	535.2	528.2	531.7	534.0
65°	15391.4	10561.2	1860.3	881.2	813.1	653.9	544.4	490.2	477.5	475.2	476.3
67.5°	15435.2	9683.5	1304.4	844.2	823.5	642.4	513.2	452.1	431.3	423.3	422.1
70°	13842.4	7866.9	1016.1	805.0	782.0	624.0	484.4	421.0	389.8	377.1	376.0
71°	13065.1	7241.8	963.0	785.4	750.8	605.5	471.7	407.1	374.8	361.0	358.7
72.5°	11846.0	6492.2	898.5	754.3	690.9	558.2	447.5	387.5	354.1	337.9	334.5
75°	8501.3	4245.5	771.6	672.4	572.1	445.2	392.1	348.3	319.5	299.9	297.6
77.5°	3275.5	1689.6	583.6	559.4	438.3	348.3	322.9	301.0	280.3	260.7	259.5
80°	1012.6	755.4	425.6	421.0	317.2	259.5	251.4	245.7	237.6	216.8	212.2
82.5°	540.9	433.7	292.9	272.2	207.6	173.0	182.2	184.5	185.7	163.8	161.5
85°	258.3	229.5	164.9	154.5	121.1	96.9	111.9	121.1	122.3	100.3	93.4
87.5°	123.4	119.9	77.3	58.8	45.0	32.3	39.2	48.4	53.1	38.1	33.4
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)