

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: P324969

Luminaire Tested: **GAN-SA5C-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22996 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

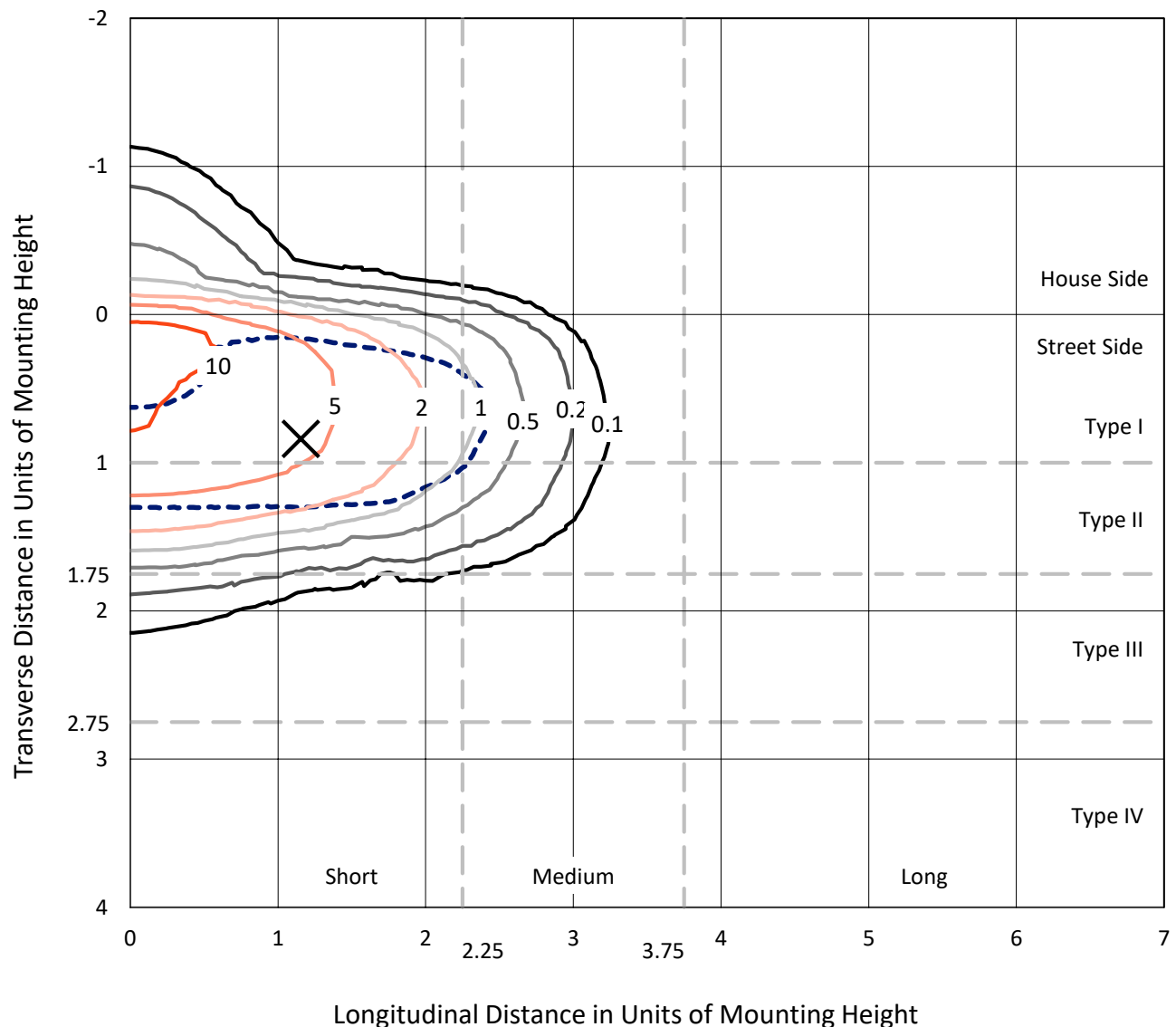
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324969
 CATALOG NUMBER: GAN-SA5C-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

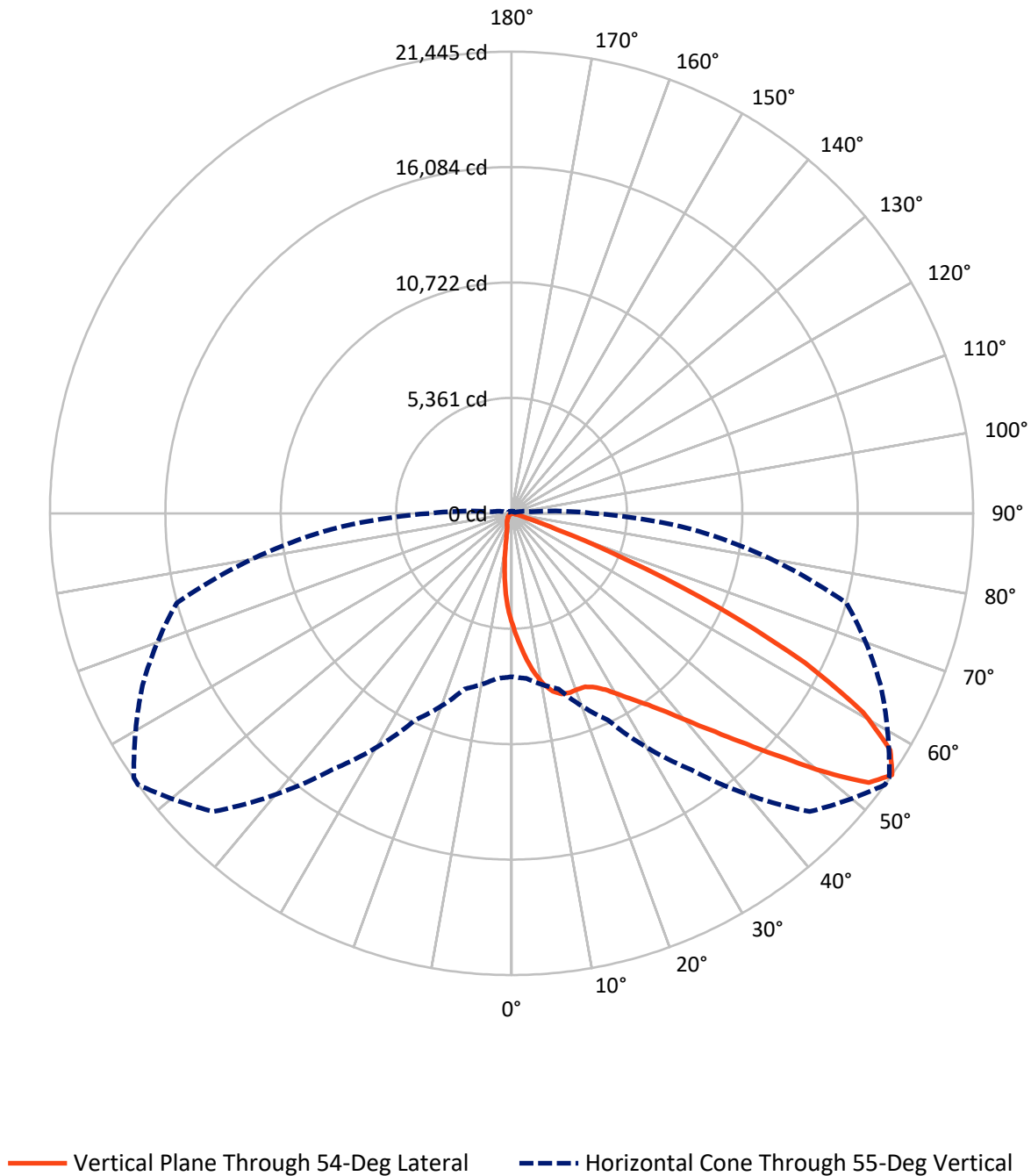
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

REPORT NUMBER: P324969
CATALOG NUMBER: GAN-SA5C-830-U-AFL-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1147.3	0.0	1147.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21848.7	0.0	21848.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	22996.0	0.0	22996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.3	2.1
10°-20°	1300.7	5.7
20°-30°	2220.7	9.7
30°-40°	3563.9	15.5
40°-50°	5695.2	24.8
50°-60°	6102.5	26.5
60°-70°	3133.2	13.6
70°-80°	474.6	2.1
80°-90°	30.9	0.1
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°	22996.0	100.0
0°-180°	22996.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324969

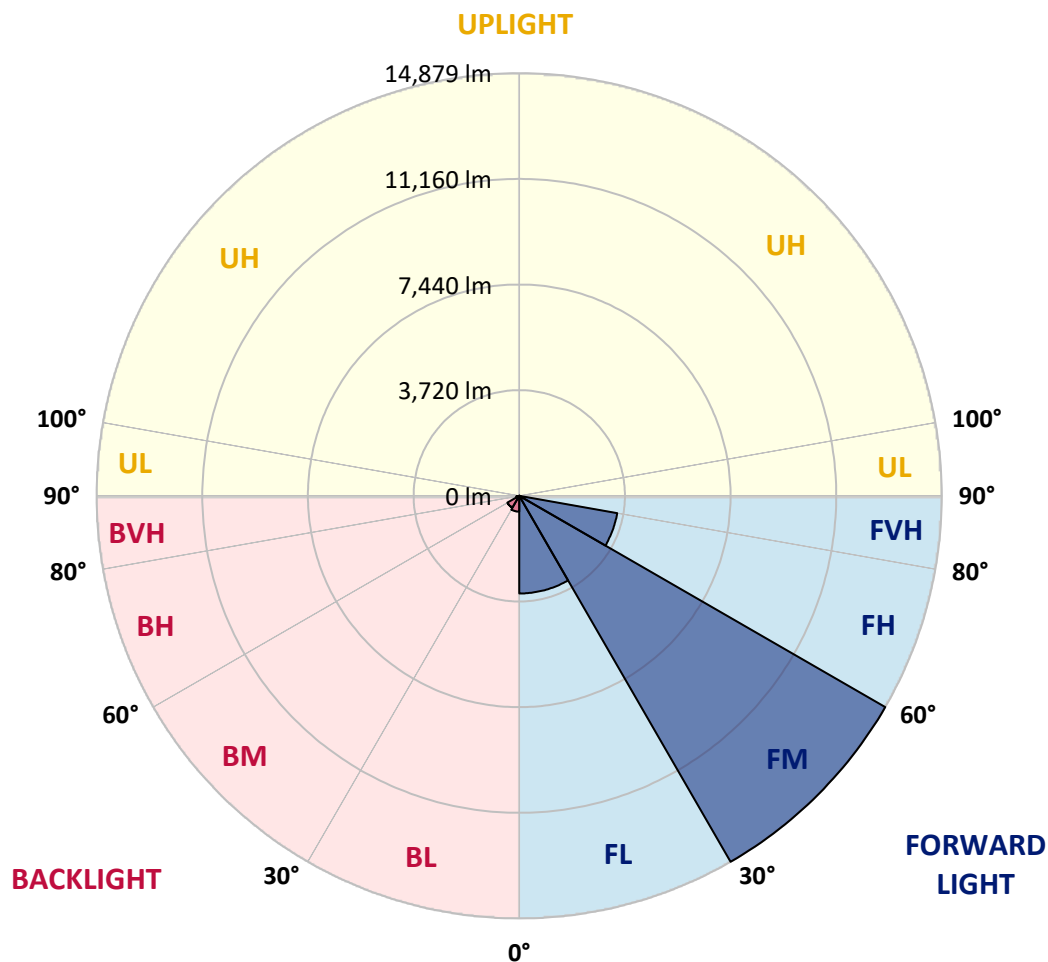
CATALOG NUMBER: GAN-SA5C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3437.5	14.9			
FM	(30°-60°)	14879.4	64.7			
FH	(60°-80°)	3502.1	15.2			G2/5000
FVH	(80°-90°)	29.7	0.1			G1/100
BL	(0°-30°)	558.2	2.4	B2/1000		
BM	(30°-60°)	482.1	2.1	B1/1000		
BH	(60°-80°)	105.7	0.5	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P324969

CATALOG NUMBER: GAN-SA5C-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2
2.5°	6463.1	6366.7	6369.7	6326.0	6166.1	6041.0	5910.9	5880.1	5677.5	5465.0	5260.4
5°	7580.3	7509.8	7492.9	7408.5	7186.0	6950.7	6698.4	6639.8	6243.6	5808.6	5380.6
7.5°	8154.3	8155.3	8141.4	8110.6	7971.6	7743.1	7435.3	7373.7	6834.5	6182.0	5505.7
10°	7987.4	8025.2	8102.6	8204.9	8311.2	8282.4	8051.0	7995.4	7409.5	6577.3	5644.7
12.5°	7598.2	7603.1	7689.5	7857.4	8163.2	8477.0	8481.0	8462.1	7958.6	6990.4	5797.7
15°	7404.5	7423.4	7455.2	7563.4	7853.4	8355.9	8715.4	8742.2	8462.1	7429.3	5960.5
17.5°	7531.6	7558.4	7531.6	7544.5	7712.4	8164.2	8756.1	8824.6	8902.1	7863.3	6114.5
20°	7876.2	7901.0	7853.4	7800.7	7833.5	8108.6	8727.3	8819.7	9246.7	8248.6	6243.6
22.5°	8341.0	8350.9	8278.4	8192.0	8168.2	8297.3	8751.1	8846.5	9522.8	8597.2	6325.0
25°	8852.4	8861.4	8771.0	8671.7	8615.1	8667.7	8946.8	9018.3	9766.1	8929.9	6371.7
27.5°	9409.6	9417.5	9304.3	9182.1	9116.6	9118.6	9269.5	9346.0	10025.3	9309.3	6409.4
30°	9998.5	9994.5	9890.2	9720.4	9637.0	9635.0	9734.3	9811.8	10400.7	9795.9	6461.1
32.5°	10659.9	10651.9	10503.9	10293.4	10199.1	10213.0	10301.4	10346.0	10866.4	10314.3	6553.4
35°	11530.8	11508.0	11284.5	11023.3	10849.5	10844.6	10919.1	10954.8	11460.3	10941.9	6707.4
37.5°	12660.9	12640.1	12337.2	11957.8	11713.5	11622.2	11710.6	11756.2	12307.4	11747.3	6954.6
40°	13775.2	13754.3	13574.6	13227.0	12850.6	12631.2	12700.7	12749.3	13365.0	12724.5	7266.5
42.5°	14543.8	14561.7	14624.3	14653.1	14300.5	13839.7	13871.5	13922.2	14476.3	13769.2	7623.0
45°	14746.4	14785.2	15138.7	15832.9	15965.0	15605.5	15272.8	15300.6	15605.5	14814.0	7979.5
47.5°	14137.7	14209.2	14891.4	16182.5	17300.7	17554.9	16925.3	16888.5	16688.9	15659.1	8232.7
50°	12754.3	12819.8	13703.7	15613.4	17705.9	19416.0	18905.5	18797.3	17639.3	16164.6	8322.1
52.5°	10752.2	10831.7	11549.7	13821.9	16942.2	20246.2	20780.5	20690.1	18336.5	16204.3	8337.0
55°	7593.2	7689.5	8449.2	10593.3	14522.0	19585.8	21444.9	21418.0	18915.4	16099.0	8368.8
57.5°	4267.3	4336.8	5156.1	6790.8	10636.0	17059.4	20750.7	20928.4	19265.0	15916.3	8416.5
60°	1894.8	1913.7	2337.7	3380.5	6226.7	13037.3	18763.5	19063.4	18965.1	15672.0	8496.9
62.5°	1050.7	1034.8	1034.8	1405.2	2706.2	8070.9	15300.6	15796.1	17685.0	15383.0	8500.9
65°	823.3	808.4	765.7	771.6	1030.8	3582.1	10595.3	11476.2	15253.9	14535.9	8214.9
67.5°	698.1	685.2	642.5	625.6	640.5	1181.8	5821.5	6736.2	11574.5	12334.2	7115.5
70°	589.9	581.0	559.1	538.3	500.5	583.9	2227.5	2849.2	7132.4	8204.9	4857.2
72.5°	474.7	470.7	478.7	460.8	415.1	389.3	761.7	922.6	3203.7	3661.5	2001.1
75°	409.2	407.2	411.1	393.3	341.6	271.1	387.3	423.1	903.7	895.8	405.2
77.5°	266.1	269.1	340.6	332.7	294.0	180.7	200.6	216.5	274.1	205.6	123.1
80°	169.8	167.8	172.8	276.1	264.2	138.0	100.3	105.3	132.1	101.3	59.6
82.5°	103.3	101.3	113.2	129.1	133.1	96.3	61.6	62.6	82.4	65.5	31.8
85°	8.9	11.9	68.5	63.6	45.7	29.8	29.8	31.8	43.7	38.7	17.9
87.5°	0.0	0.0	11.9	17.9	9.9	10.9	10.9	11.9	16.9	16.9	8.9
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: P324969

CATALOG NUMBER: GAN-SA5C-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2
2.5°	5154.2	5050.9	4842.3	4641.7	4471.9	4308.0	4121.3	3936.6	3850.2	3815.5	3779.7
5°	5163.1	4950.6	4520.6	4087.6	3638.7	3234.5	2889.9	2536.4	2359.6	2282.1	2246.4
7.5°	5175.0	4851.3	4156.1	3429.2	2706.2	2158.0	1679.3	1371.5	1238.4	1217.5	1165.9
10°	5177.0	4731.1	3733.0	2702.2	1814.4	1301.0	1001.0	842.1	783.6	773.6	756.7
12.5°	5181.0	4589.1	3263.3	2001.1	1209.6	869.9	724.0	671.3	655.4	654.4	654.4
15°	5192.9	4440.1	2775.7	1442.0	869.0	689.2	635.6	614.7	608.8	611.7	610.8
17.5°	5192.9	4264.3	2297.0	1074.5	702.1	619.7	589.9	576.0	574.0	577.0	578.0
20°	5155.1	4050.8	1858.1	836.2	622.7	575.0	548.2	535.3	530.3	532.3	533.3
22.5°	5064.8	3788.7	1500.6	692.2	570.0	534.3	505.5	485.6	477.7	478.7	478.7
25°	4923.8	3477.8	1173.8	598.8	527.3	490.6	456.8	434.0	429.0	428.0	430.0
27.5°	4743.0	3134.2	934.5	527.3	476.7	441.9	408.2	389.3	385.3	386.3	387.3
30°	4565.2	2777.7	736.9	466.8	420.1	387.3	361.5	352.5	352.5	355.5	356.5
32.5°	4402.4	2435.1	582.9	414.1	369.4	339.6	324.7	323.7	328.7	330.7	331.7
35°	4262.4	2118.3	482.6	373.4	329.7	303.9	298.9	302.9	308.9	312.8	313.8
37.5°	4163.0	1835.2	422.1	339.6	298.9	278.1	277.1	285.0	293.0	301.9	303.9
40°	4121.3	1595.9	380.4	309.8	274.1	258.2	255.2	266.1	281.0	294.0	295.9
42.5°	4086.6	1400.3	344.6	281.0	254.2	231.4	230.4	244.3	262.2	275.1	278.1
45°	4056.8	1243.4	311.8	250.3	228.4	198.6	201.6	219.5	233.4	247.3	250.3
47.5°	3995.2	1114.3	276.1	217.5	188.7	169.8	175.8	191.7	202.6	223.4	226.4
50°	3885.0	1009.0	239.3	177.8	153.9	147.0	155.9	166.8	180.7	198.6	200.6
52.5°	3810.5	929.5	207.6	149.0	127.1	129.1	138.0	142.0	150.0	156.9	154.9
55°	3767.8	885.8	181.7	129.1	108.2	114.2	116.2	111.2	107.3	100.3	97.3
57.5°	3762.8	846.1	161.9	112.2	95.3	98.3	91.4	74.5	60.6	52.6	50.6
60°	3754.9	797.5	146.0	94.3	84.4	80.4	65.5	40.7	28.8	26.8	26.8
62.5°	3668.5	722.0	134.1	79.4	71.5	60.6	37.7	18.9	15.9	16.9	16.9
65°	3393.4	616.7	122.2	64.6	56.6	43.7	18.9	10.9	6.0	7.0	7.0
67.5°	2884.9	491.6	109.2	49.7	42.7	27.8	10.9	5.0	0.0	0.0	0.0
70°	1931.6	304.9	92.4	34.8	27.8	16.9	7.9	1.0	0.0	0.0	0.0
72.5°	740.8	164.9	74.5	20.9	17.9	11.9	5.0	0.0	0.0	0.0	0.0
75°	166.8	108.2	51.6	14.9	12.9	7.9	2.0	0.0	0.0	0.0	0.0
77.5°	63.6	78.5	29.8	9.9	8.9	5.0	0.0	0.0	0.0	0.0	0.0
80°	30.8	46.7	13.9	6.0	5.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.9	17.9	6.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.9	8.9	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	3.0	1.0	1.0	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)