

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: P322083

Luminaire Tested: **GAN-SA9B-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28880 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 374
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

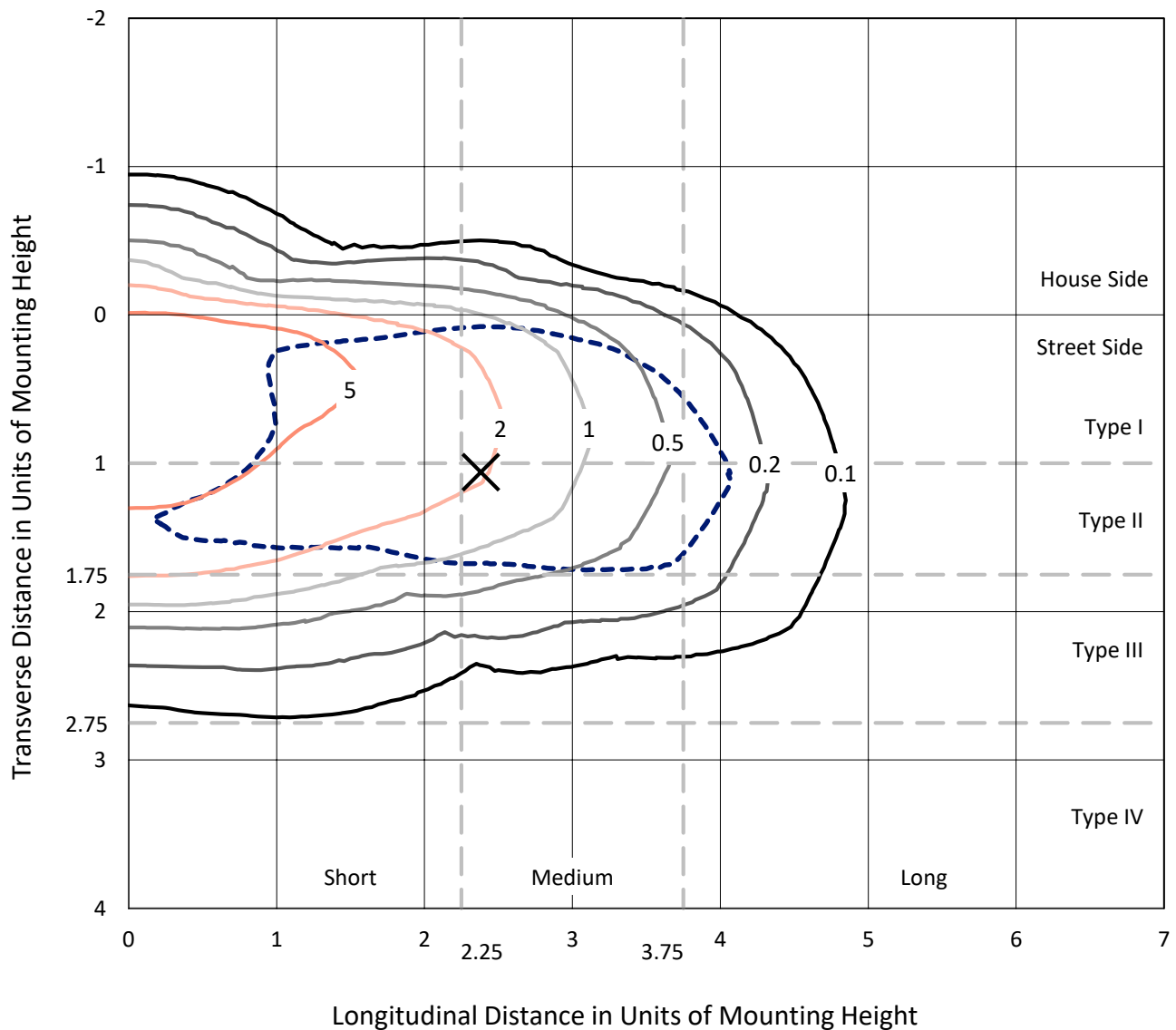


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Iso-Footcandle Lines of Horizontal Illumination

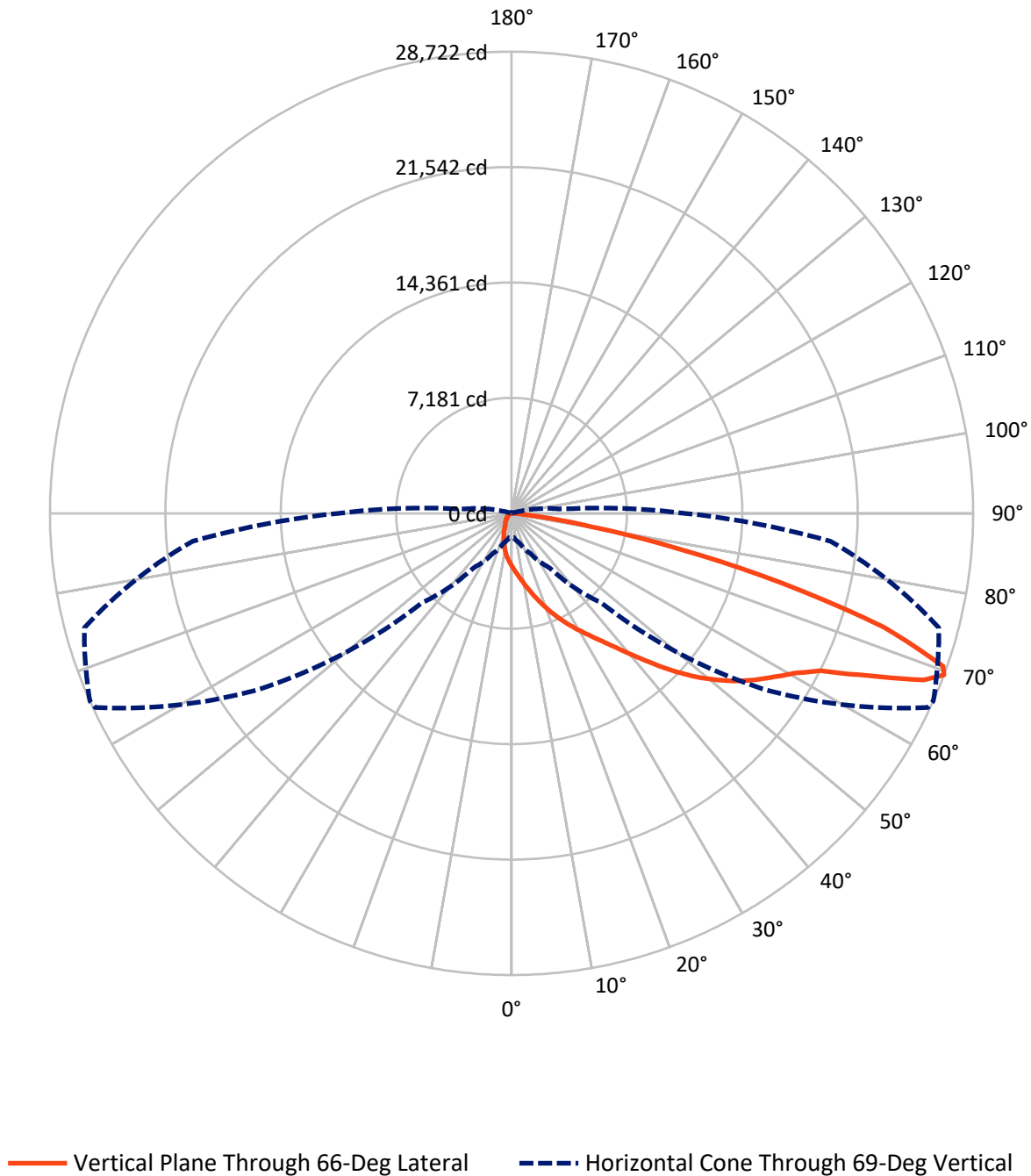
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1732.4	0.0	1732.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	27147.6	0.0	27147.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	28880.0	0.0	28880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.7	1.1
10°-20°	945.5	3.3
20°-30°	1646.5	5.7
30°-40°	2888.8	10.0
40°-50°	4835.4	16.7
50°-60°	7107.6	24.6
60°-70°	7297.7	25.3
70°-80°	3602.7	12.5
80°-90°	238.2	0.8
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°	28880.0	100.0
0°-180°	28880.0	100.0

Coefficient of Utilization



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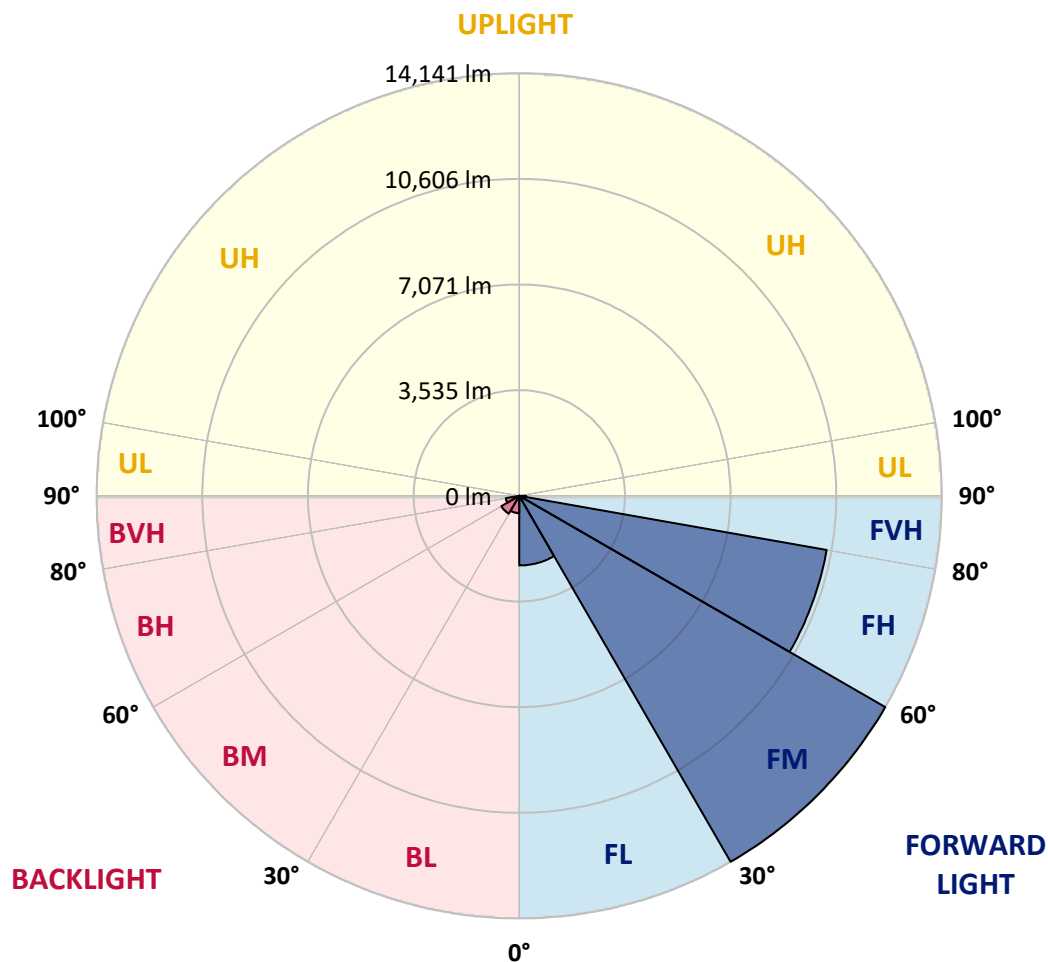
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2330.3	8.1			
FM	(30°-60°)	14141.0	49.0			
FH	(60°-80°)	10443.8	36.2			G4/12000
FVH	(80°-90°)	232.5	0.8			G3/500
BL	(0°-30°)	579.4	2.0	B2/1000		
BM	(30°-60°)	690.7	2.4	B1/1000		
BH	(60°-80°)	456.5	1.6	B1/500		G1/500
BVH	(80°-90°)	5.8	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6
2.5°	3868.2	3851.8	3844.9	3814.7	3762.6	3722.8	3646.0	3556.9	3540.4	3454.0	3348.4
5°	4370.3	4356.6	4347.0	4304.5	4251.0	4150.8	4010.9	3844.9	3813.4	3648.8	3437.5
7.5°	4720.1	4744.8	4744.8	4717.3	4650.1	4574.7	4403.2	4176.9	4137.1	3884.7	3556.9
10°	4924.5	4954.6	4978.0	5001.3	4991.7	4961.5	4799.6	4544.5	4496.5	4161.8	3695.4
12.5°	4943.7	4973.9	5039.7	5137.1	5231.7	5300.3	5198.8	4951.9	4897.0	4482.8	3860.0
15°	4836.7	4868.2	4969.7	5159.0	5388.1	5588.4	5621.3	5403.2	5347.0	4865.5	4065.8
17.5°	4650.1	4670.7	4816.1	5078.1	5437.5	5805.1	6004.0	5887.4	5835.3	5303.1	4294.8
20°	4511.6	4526.7	4654.2	4935.4	5407.3	5940.9	6366.1	6401.8	6346.9	5772.2	4543.1
22.5°	4748.9	4776.3	4780.4	4913.5	5325.0	6008.1	6684.4	6908.0	6866.8	6270.1	4787.3
25°	5397.7	5429.3	5325.0	5242.7	5395.0	6038.3	6957.4	7426.5	7393.6	6806.5	5032.8
27.5°	6255.0	6288.0	6153.5	5908.0	5761.2	6152.2	7200.1	7953.2	7951.9	7374.4	5297.6
30°	7097.3	7130.2	6993.0	6747.5	6410.0	6474.5	7410.0	8504.7	8512.9	7960.1	5578.8
32.5°	7980.7	8021.8	7880.5	7565.0	7212.5	7031.4	7704.9	9058.8	9105.5	8639.1	5895.6
35°	8984.8	8990.2	8791.3	8460.8	8054.7	7776.3	8178.2	9680.2	9791.3	9479.9	6297.6
37.5°	9969.6	10009.4	9846.2	9324.9	8951.8	8636.3	8881.9	10456.6	10614.4	10507.4	6822.9
40°	10699.4	10783.1	10759.8	10197.4	9843.4	9618.5	9755.7	11379.8	11580.0	11703.5	7485.5
42.5°	11157.6	11220.7	11327.6	10988.8	10667.9	10704.9	10787.2	12455.2	12702.1	13067.0	8246.8
45°	11682.9	11713.1	11802.3	11652.7	11436.0	11809.1	11881.8	13666.4	13925.7	14533.4	9091.7
47.5°	12324.9	12396.2	12420.9	12283.7	12185.0	12785.8	12936.7	14767.9	15131.4	16104.0	9986.1
50°	13142.4	13161.6	13204.2	13115.0	13016.2	13625.3	13883.2	15924.3	16254.9	17680.1	10868.1
52.5°	13942.1	14010.7	14158.9	14102.6	14062.9	14339.9	14726.8	16966.8	17335.8	18994.2	11748.8
55°	14172.6	14231.6	14743.2	15093.0	15416.7	15220.6	15533.3	17900.9	18300.1	20168.4	12596.5
57.5°	13252.2	13371.5	14257.6	15168.5	16511.4	16589.6	16641.7	18859.8	19217.8	21068.2	13478.5
60°	10925.7	10949.1	12403.1	13965.5	16330.3	17784.3	18260.3	19889.9	20190.3	21906.3	14534.7
62.5°	6949.1	7186.4	8781.7	10987.5	14415.4	17611.5	20217.8	21448.2	21557.9	22911.8	16049.1
65°	3310.0	3463.6	4613.1	6788.6	10441.5	15398.9	21568.9	24267.1	24316.4	24904.9	18072.4
67.5°	1832.6	1906.7	2454.0	3654.3	6104.1	10890.1	21023.0	27605.8	27652.5	26940.5	19847.4
69°	1433.4	1496.5	1927.3	2754.4	4138.5	7827.0	19024.4	28583.9	28722.4	27523.5	19910.5
70°	1216.7	1278.4	1659.8	2326.4	3327.8	6047.9	16933.9	28341.1	28487.8	27468.7	19440.0
72.5°	744.8	780.5	1105.6	1637.8	2230.4	3042.5	10442.9	23968.0	24216.3	25197.1	16707.5
75°	502.0	521.3	691.3	1130.3	1595.3	1566.5	5425.1	16894.1	17431.8	19600.5	12340.0
77.5°	359.4	377.2	463.6	731.1	1118.0	1034.3	2456.7	10499.1	10614.4	11755.6	6729.6
80°	204.4	220.8	327.8	434.8	758.6	690.0	976.7	5015.0	5072.6	5041.1	2246.9
82.5°	107.0	120.7	179.7	286.7	487.0	451.3	406.0	1679.0	1687.2	1403.3	492.4
85°	20.6	24.7	89.2	196.2	251.0	196.2	166.0	393.7	401.9	355.3	122.1
87.5°	0.0	1.4	35.7	43.9	49.4	50.8	53.5	76.8	82.3	111.1	32.9
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°	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6
2.5°	3301.7	3252.3	3157.7	3048.0	2962.9	2879.2	2813.4	2744.8	2720.1	2707.8	2706.4
5°	3334.6	3230.4	3030.1	2824.4	2655.6	2496.5	2382.7	2274.3	2223.6	2200.2	2190.6
7.5°	3389.5	3222.2	2899.8	2585.7	2342.9	2144.0	1986.2	1868.3	1809.3	1784.6	1775.0
10°	3454.0	3211.2	2747.6	2333.3	2023.3	1817.5	1661.2	1544.6	1480.1	1452.6	1438.9
12.5°	3529.4	3192.0	2572.0	2078.2	1750.3	1544.6	1355.3	1211.2	1137.2	1105.6	1090.5
15°	3622.7	3172.8	2388.2	1838.1	1510.3	1259.2	1052.1	954.7	939.6	934.1	935.5
17.5°	3714.6	3142.6	2187.9	1600.8	1257.9	983.5	877.9	872.4	875.2	875.2	875.2
20°	3796.9	3074.0	1969.8	1397.8	1017.8	829.9	807.9	798.3	791.5	786.0	779.1
22.5°	3861.4	2982.1	1759.9	1196.1	831.3	759.9	725.6	695.5	670.8	654.3	646.1
25°	3905.3	2860.0	1567.9	1002.7	747.6	691.3	629.6	578.9	540.5	517.1	507.5
27.5°	3938.2	2728.3	1396.4	839.5	690.0	611.8	530.9	470.5	430.7	410.1	401.9
30°	3961.5	2578.8	1245.5	738.0	625.5	528.1	441.7	382.7	353.9	342.9	337.4
32.5°	3983.5	2412.9	1102.9	690.0	565.1	451.3	370.4	325.1	307.3	293.5	289.4
35°	4038.3	2259.2	967.1	639.2	503.4	385.5	318.2	285.3	267.5	259.3	256.5
37.5°	4168.7	2145.4	836.7	587.1	441.7	333.3	278.5	255.1	238.7	230.4	227.7
40°	4378.5	2087.8	727.0	530.9	381.3	293.5	252.4	230.4	212.6	200.3	197.5
42.5°	4687.2	2096.0	650.2	474.6	333.3	262.0	227.7	201.6	182.4	171.5	168.7
45°	5061.6	2156.3	596.7	419.7	293.5	237.3	200.3	172.8	155.0	145.4	142.7
47.5°	5467.7	2253.7	552.8	370.4	262.0	214.0	172.8	144.0	128.9	120.7	119.3
50°	5895.6	2348.4	507.5	322.4	234.6	190.7	145.4	119.3	107.0	100.1	97.4
52.5°	6329.1	2458.1	466.4	278.5	211.2	163.2	120.7	97.4	87.8	82.3	79.6
55°	6795.5	2540.4	426.6	244.2	187.9	138.5	100.1	80.9	72.7	65.8	64.5
57.5°	7344.2	2668.0	385.5	211.2	160.5	115.2	82.3	64.5	57.6	50.8	49.4
60°	8084.9	2817.5	341.6	186.6	131.7	94.6	67.2	52.1	43.9	38.4	37.0
62.5°	9061.6	2983.5	286.7	163.2	107.0	76.8	53.5	41.2	31.5	24.7	24.7
65°	10300.2	3253.7	234.6	137.2	87.8	63.1	41.2	30.2	17.8	11.0	11.0
67.5°	11023.1	3300.4	189.3	112.5	71.3	53.5	34.3	20.6	5.5	1.4	0.0
69°	10791.3	3030.1	160.5	96.0	61.7	50.8	31.5	15.1	2.7	0.0	0.0
70°	10355.1	2770.9	141.3	85.0	56.2	48.0	30.2	11.0	2.7	0.0	0.0
72.5°	8556.8	1972.5	107.0	63.1	41.2	42.5	27.4	6.9	2.7	0.0	0.0
75°	6233.1	1198.9	76.8	43.9	26.1	31.5	19.2	2.7	1.4	0.0	0.0
77.5°	3467.7	565.1	48.0	24.7	16.5	19.2	9.6	0.0	0.0	0.0	0.0
80°	1126.2	153.6	21.9	13.7	9.6	11.0	4.1	0.0	0.0	0.0	0.0
82.5°	208.5	43.9	12.3	6.9	2.7	2.7	0.0	0.0	0.0	0.0	0.0
85°	45.3	17.8	6.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	5.5	1.4	0.0	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)