

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: P322087

Luminaire Tested: **GAN-SA3C-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322087
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-SA3C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 12207 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 166
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



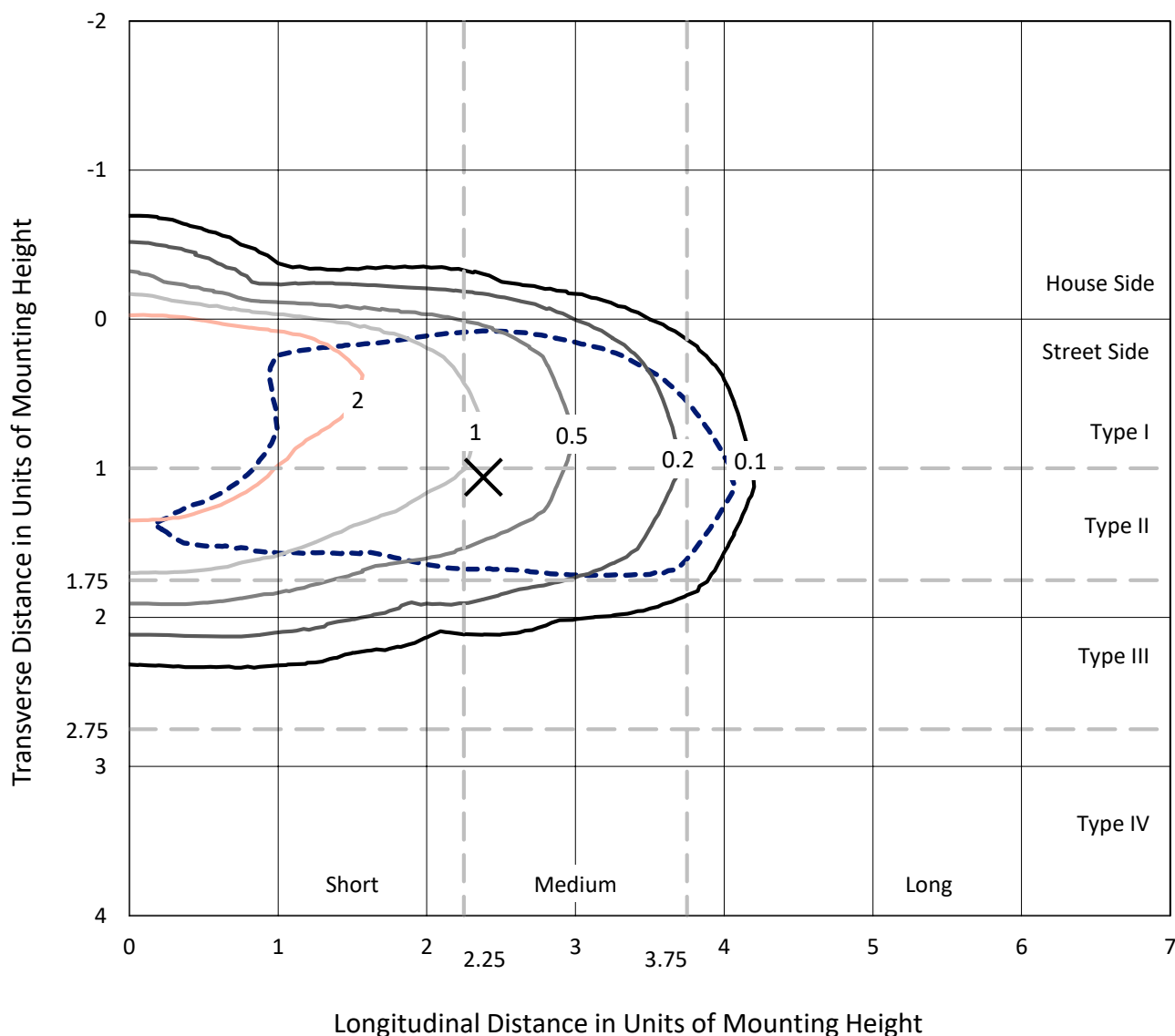
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

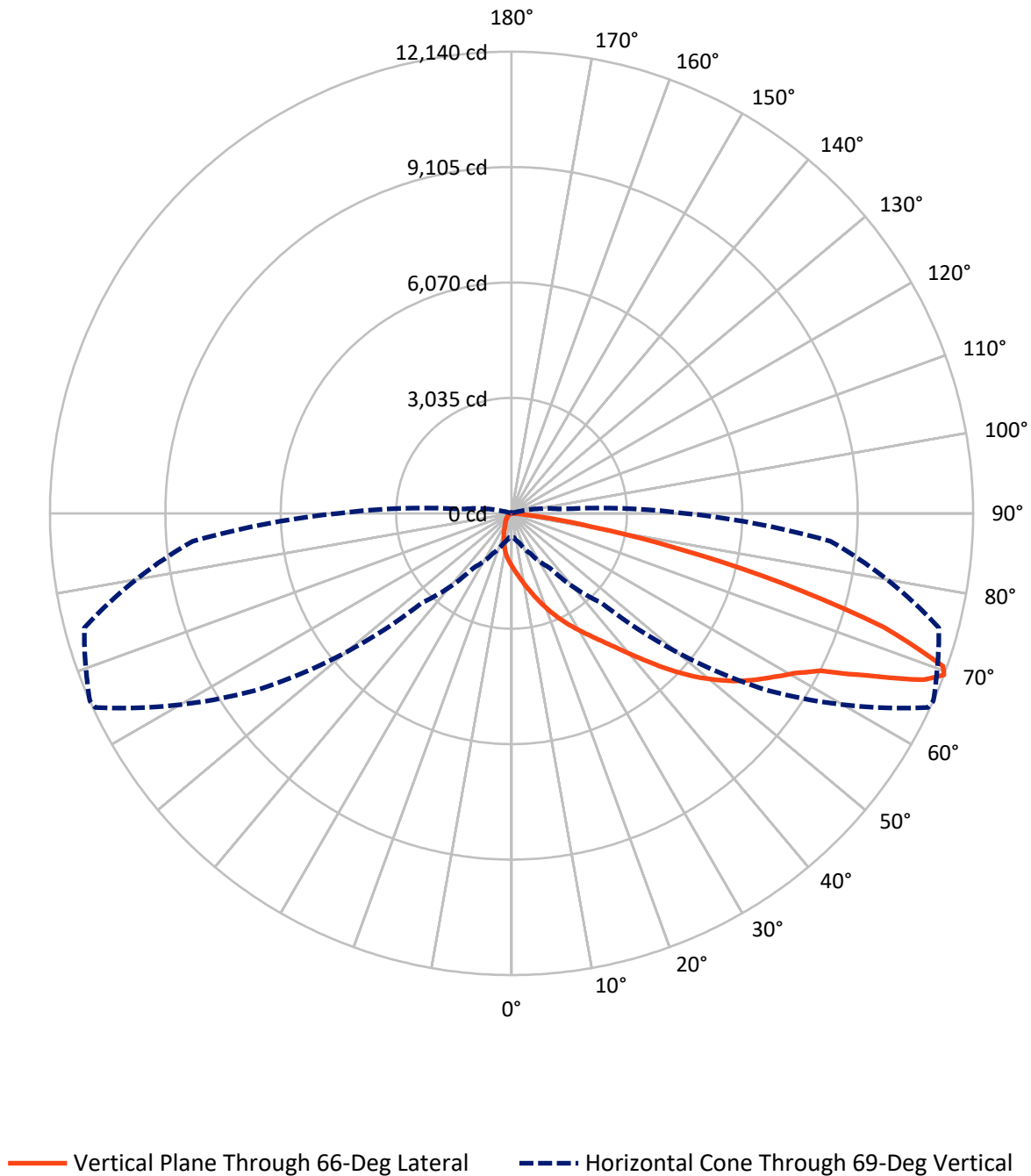
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	732.3	0.0	732.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	11474.8	0.0	11474.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	12207.0	0.0	12207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	1.1
10°-20°	399.7	3.3
20°-30°	695.9	5.7
30°-40°	1221.0	10.0
40°-50°	2043.8	16.7
50°-60°	3004.2	24.6
60°-70°	3084.6	25.3
70°-80°	1522.8	12.5
80°-90°	100.7	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°	12207.0	100.0
0°-180°	12207.0	100.0

Coefficient of Utilization



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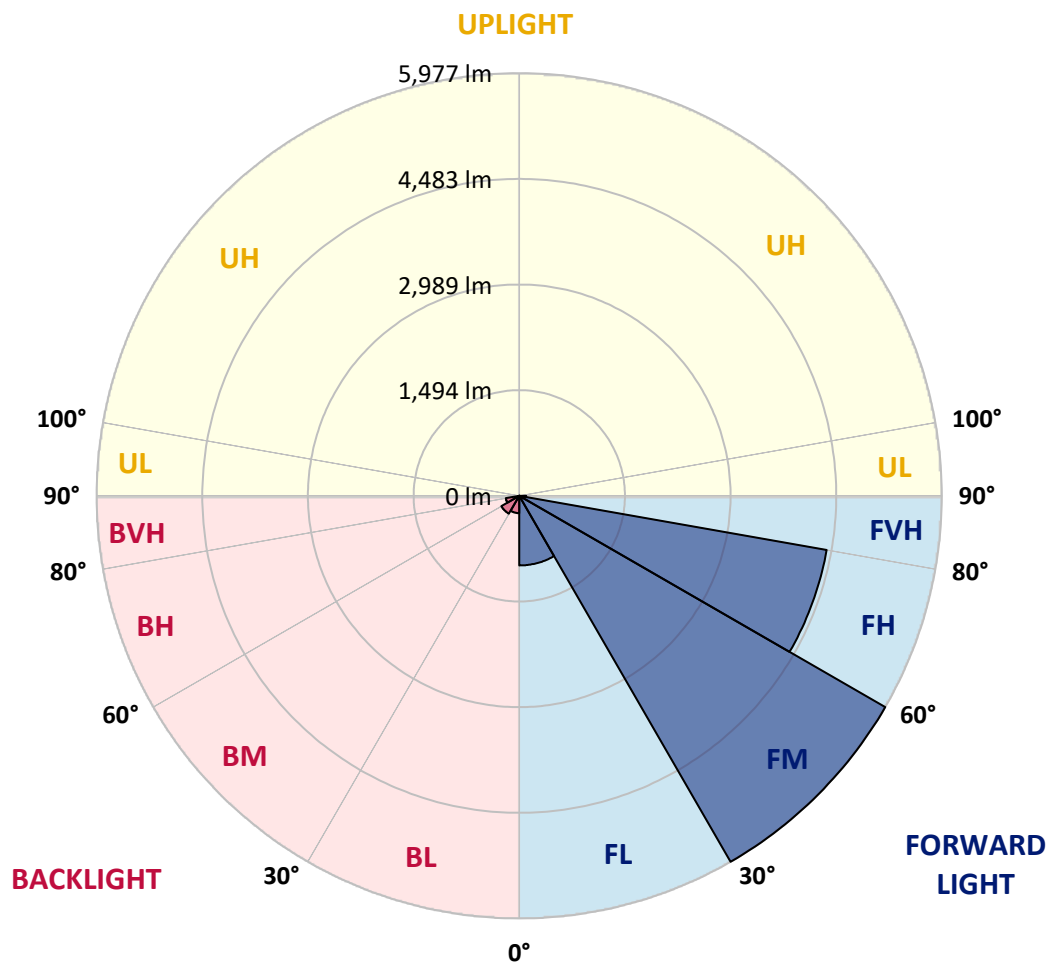
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	985.0	8.1			
FM	(30°-60°)	5977.1	49.0			
FH	(60°-80°)	4414.4	36.2			G2/5000
FVH	(80°-90°)	98.3	0.8			G1/100
BL	(0°-30°)	244.9	2.0	B1/500		
BM	(30°-60°)	292.0	2.4	B1/1000		
BH	(60°-80°)	193.0	1.6	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2
2.5°	1635.0	1628.1	1625.2	1612.4	1590.4	1573.6	1541.1	1503.4	1496.5	1459.9	1415.3
5°	1847.2	1841.4	1837.4	1819.4	1796.8	1754.5	1695.3	1625.2	1611.8	1542.3	1453.0
7.5°	1995.1	2005.5	2005.5	1993.9	1965.5	1933.6	1861.2	1765.5	1748.7	1642.0	1503.4
10°	2081.5	2094.2	2104.1	2113.9	2109.9	2097.1	2028.7	1920.9	1900.6	1759.1	1562.0
12.5°	2089.6	2102.3	2130.2	2171.3	2211.3	2240.3	2197.4	2093.1	2069.9	1894.8	1631.6
15°	2044.4	2057.7	2100.6	2180.6	2277.4	2362.1	2376.0	2283.8	2260.1	2056.5	1718.5
17.5°	1965.5	1974.2	2035.7	2146.4	2298.3	2453.7	2537.8	2488.5	2466.5	2241.5	1815.3
20°	1907.0	1913.3	1967.3	2086.1	2285.6	2511.1	2690.8	2705.9	2682.7	2439.8	1920.3
22.5°	2007.3	2018.9	2020.6	2076.8	2250.8	2539.5	2825.4	2919.9	2902.5	2650.3	2023.5
25°	2281.5	2294.8	2250.8	2216.0	2280.3	2552.3	2940.7	3139.0	3125.1	2877.0	2127.3
27.5°	2643.9	2657.8	2601.0	2497.2	2435.2	2600.4	3043.4	3361.7	3361.1	3117.0	2239.2
30°	2999.9	3013.8	2955.8	2852.0	2709.4	2736.6	3132.1	3594.7	3598.2	3364.6	2358.0
32.5°	3373.3	3390.7	3330.9	3197.6	3048.6	2972.0	3256.7	3829.0	3848.7	3651.6	2492.0
35°	3797.7	3800.0	3715.9	3576.2	3404.6	3286.9	3456.8	4091.6	4138.6	4007.0	2661.9
37.5°	4214.0	4230.8	4161.8	3941.5	3783.8	3650.4	3754.2	4419.8	4486.5	4441.3	2883.9
40°	4522.4	4557.8	4547.9	4310.2	4160.6	4065.5	4123.5	4810.0	4894.7	4946.8	3164.0
42.5°	4716.1	4742.7	4788.0	4644.8	4509.1	4524.7	4559.5	5264.6	5368.9	5523.2	3485.7
45°	4938.1	4950.9	4988.6	4925.4	4833.8	4991.5	5022.2	5776.5	5886.1	6143.0	3842.9
47.5°	5209.5	5239.6	5250.1	5192.1	5150.3	5404.3	5468.1	6242.1	6395.8	6806.8	4220.9
50°	5555.0	5563.2	5581.1	5543.4	5501.7	5759.1	5868.1	6730.9	6870.6	7473.0	4593.7
52.5°	5893.1	5922.1	5984.7	5960.9	5944.1	6061.2	6224.7	7171.5	7327.5	8028.5	4966.0
55°	5990.5	6015.4	6231.7	6379.5	6516.3	6433.4	6565.6	7566.4	7735.1	8524.8	5324.3
57.5°	5601.4	5651.9	6026.4	6411.4	6979.0	7012.1	7034.1	7971.6	8123.0	8905.1	5697.1
60°	4618.1	4627.9	5242.5	5902.9	6902.5	7517.1	7718.3	8407.1	8534.0	9259.4	6143.5
62.5°	2937.3	3037.6	3711.9	4644.2	6093.1	7444.0	8545.6	9065.7	9112.1	9684.4	6783.6
65°	1399.1	1464.0	1949.9	2869.4	4413.4	6508.8	9116.7	10257.2	10278.1	10526.8	7638.8
67.5°	774.6	805.9	1037.3	1544.6	2580.1	4603.0	8886.0	11668.4	11688.1	11387.2	8389.1
69°	605.9	632.6	814.6	1164.2	1749.3	3308.3	8041.2	12081.8	12140.4	11633.6	8415.8
70°	514.3	540.4	701.6	983.3	1406.6	2556.3	7157.6	11979.2	12041.2	11610.5	8216.9
72.5°	314.8	329.9	467.3	692.3	942.8	1286.0	4414.0	10130.8	10235.8	10650.3	7061.9
75°	212.2	220.3	292.2	477.8	674.3	662.1	2293.1	7140.8	7368.1	8284.7	5215.9
77.5°	151.9	159.4	196.0	309.0	472.5	437.2	1038.4	4437.8	4486.5	4968.9	2844.5
80°	86.4	93.3	138.6	183.8	320.6	291.6	412.8	2119.7	2144.1	2130.8	949.7
82.5°	45.2	51.0	76.0	121.2	205.8	190.8	171.6	709.7	713.2	593.1	208.1
85°	8.7	10.4	37.7	82.9	106.1	82.9	70.2	166.4	169.9	150.2	51.6
87.5°	0.0	0.6	15.1	18.6	20.9	21.5	22.6	32.5	34.8	47.0	13.9
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°	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2
2.5°	1395.6	1374.7	1334.7	1288.3	1252.4	1217.0	1189.2	1160.2	1149.7	1144.5	1143.9
5°	1409.5	1365.4	1280.8	1193.8	1122.5	1055.2	1007.1	961.3	939.9	930.0	925.9
7.5°	1432.7	1361.9	1225.7	1092.9	990.3	906.2	839.5	789.7	764.8	754.3	750.3
10°	1459.9	1357.3	1161.3	986.2	855.2	768.2	702.1	652.9	625.6	614.0	608.2
12.5°	1491.8	1349.2	1087.1	878.4	739.8	652.9	572.8	512.0	480.7	467.3	460.9
15°	1531.2	1341.1	1009.4	776.9	638.4	532.3	444.7	403.5	397.2	394.8	395.4
17.5°	1570.1	1328.3	924.8	676.6	531.7	415.7	371.1	368.8	369.9	369.9	369.9
20°	1604.9	1299.3	832.6	590.8	430.2	350.8	341.5	337.4	334.5	332.2	329.3
22.5°	1632.1	1260.5	743.9	505.6	351.4	321.2	306.7	294.0	283.5	276.6	273.1
25°	1650.7	1208.9	662.7	423.8	316.0	292.2	266.1	244.7	228.4	218.6	214.5
27.5°	1664.6	1153.2	590.2	354.8	291.6	258.6	224.4	198.9	182.1	173.4	169.9
30°	1674.5	1090.0	526.5	311.9	264.4	223.2	186.7	161.8	149.6	144.9	142.6
32.5°	1683.7	1019.9	466.2	291.6	238.9	190.8	156.5	137.4	129.9	124.1	122.3
35°	1706.9	954.9	408.8	270.2	212.8	162.9	134.5	120.6	113.1	109.6	108.4
37.5°	1762.0	906.8	353.7	248.2	186.7	140.9	117.7	107.8	100.9	97.4	96.2
40°	1850.7	882.5	307.3	224.4	161.2	124.1	106.7	97.4	89.9	84.7	83.5
42.5°	1981.2	885.9	274.8	200.6	140.9	110.7	96.2	85.2	77.1	72.5	71.3
45°	2139.5	911.4	252.2	177.4	124.1	100.3	84.7	73.1	65.5	61.5	60.3
47.5°	2311.1	952.6	233.7	156.5	110.7	90.4	73.1	60.9	54.5	51.0	50.4
50°	2492.0	992.6	214.5	136.3	99.1	80.6	61.5	50.4	45.2	42.3	41.2
52.5°	2675.2	1039.0	197.1	117.7	89.3	69.0	51.0	41.2	37.1	34.8	33.6
55°	2872.3	1073.8	180.3	103.2	79.4	58.6	42.3	34.2	30.7	27.8	27.3
57.5°	3104.2	1127.7	162.9	89.3	67.8	48.7	34.8	27.3	24.4	21.5	20.9
60°	3417.3	1190.9	144.4	78.9	55.7	40.0	28.4	22.0	18.6	16.2	15.7
62.5°	3830.1	1261.1	121.2	69.0	45.2	32.5	22.6	17.4	13.3	10.4	10.4
65°	4353.7	1375.3	99.1	58.0	37.1	26.7	17.4	12.8	7.5	4.6	4.6
67.5°	4659.3	1395.0	80.0	47.5	30.1	22.6	14.5	8.7	2.3	0.6	0.0
69°	4561.3	1280.8	67.8	40.6	26.1	21.5	13.3	6.4	1.2	0.0	0.0
70°	4376.9	1171.2	59.7	35.9	23.8	20.3	12.8	4.6	1.2	0.0	0.0
72.5°	3616.8	833.7	45.2	26.7	17.4	18.0	11.6	2.9	1.2	0.0	0.0
75°	2634.6	506.7	32.5	18.6	11.0	13.3	8.1	1.2	0.6	0.0	0.0
77.5°	1465.7	238.9	20.3	10.4	7.0	8.1	4.1	0.0	0.0	0.0	0.0
80°	476.0	64.9	9.3	5.8	4.1	4.6	1.7	0.0	0.0	0.0	0.0
82.5°	88.1	18.6	5.2	2.9	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	19.1	7.5	2.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	2.3	0.6	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)