

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: P322799

Luminaire Tested: **GAN-SA5B-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17312 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

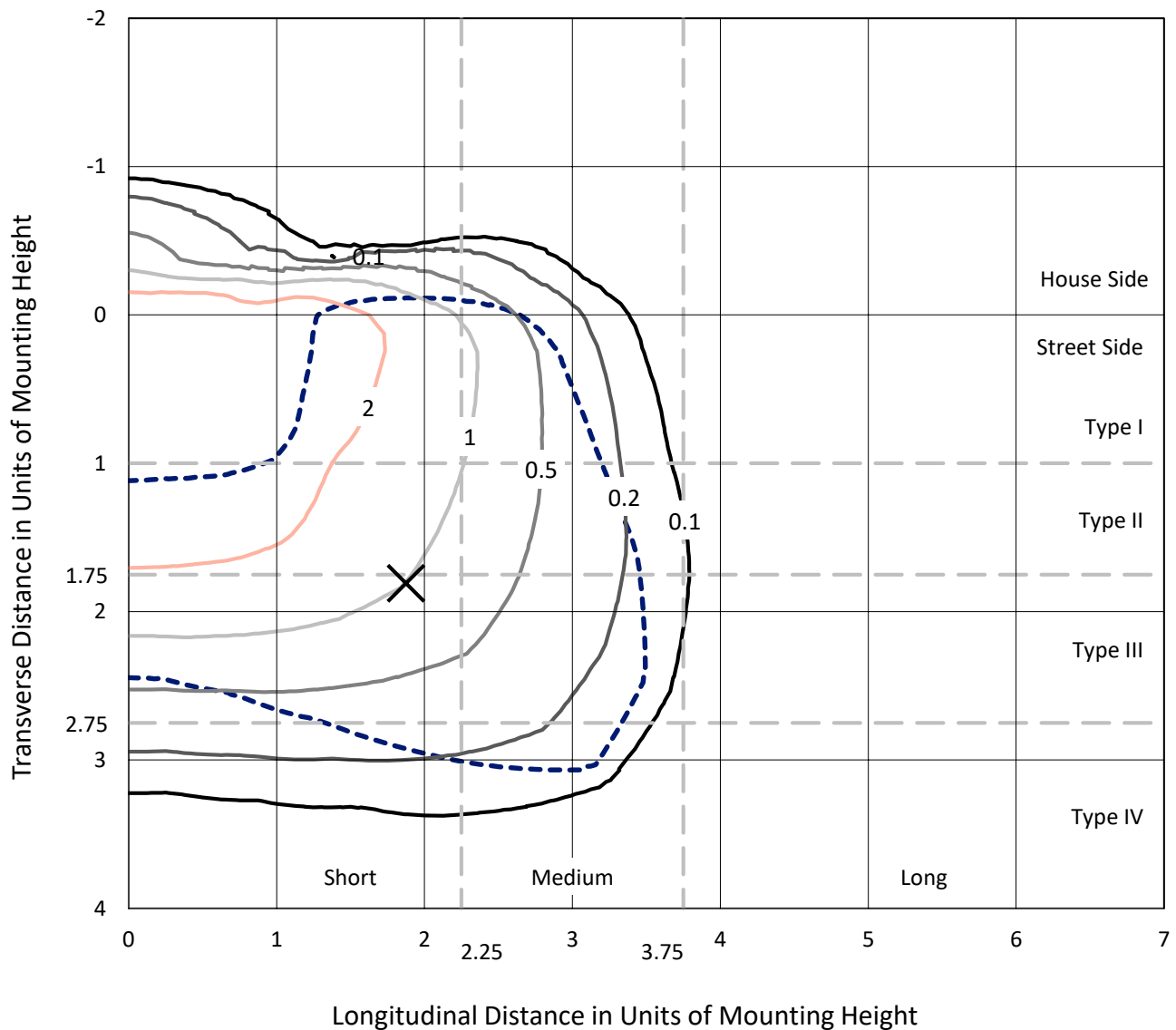
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

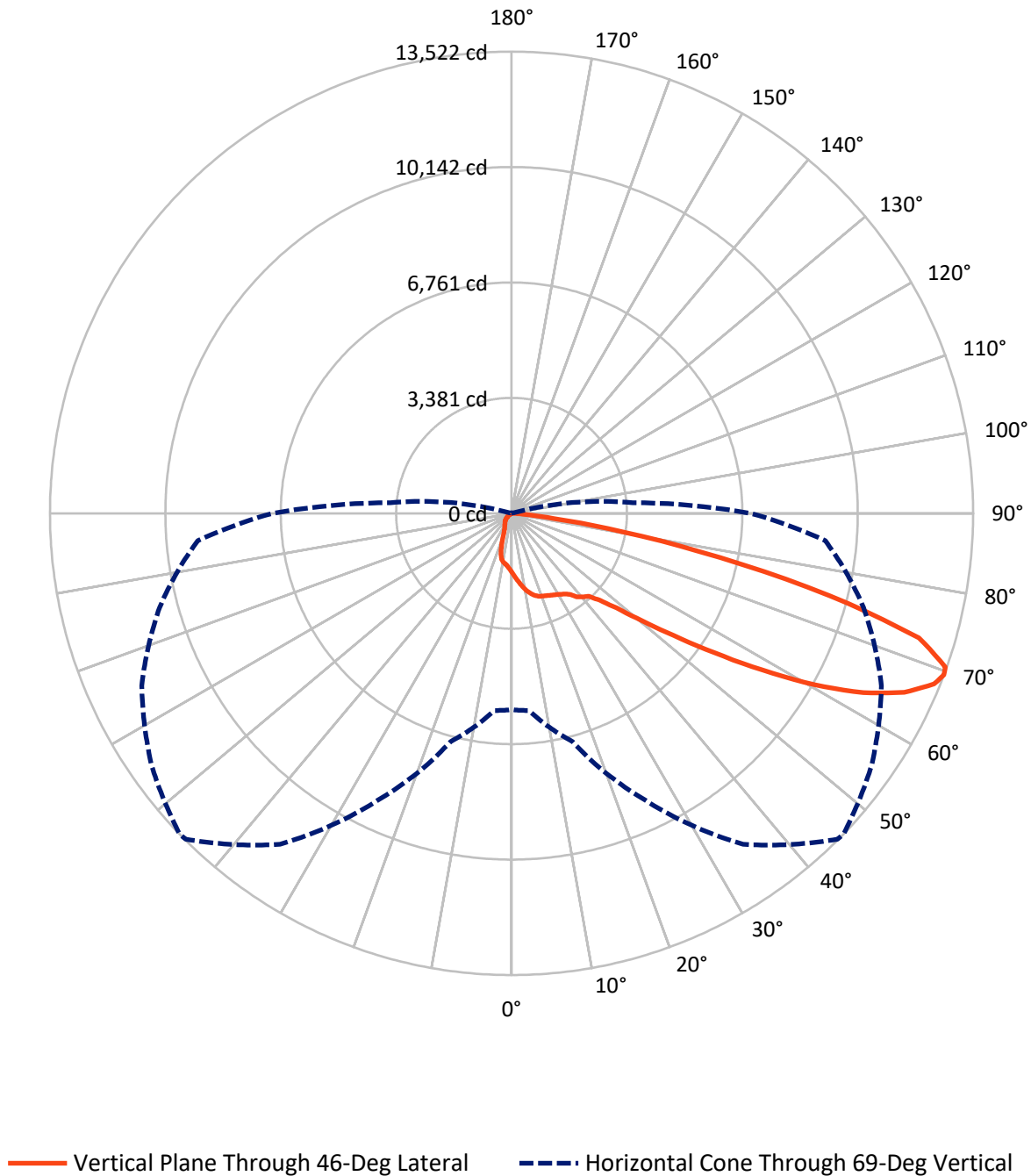
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1776.7	0.0	1776.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15535.3	0.0	15535.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	17312.0	0.0	17312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	1.0
10°-20°	523.8	3.0
20°-30°	823.7	4.8
30°-40°	1181.2	6.8
40°-50°	2041.6	11.8
50°-60°	4033.4	23.3
60°-70°	5637.1	32.6
70°-80°	2723.3	15.7
80°-90°	175.0	1.0
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°	17312.0	100.0
0°-180°	17312.0	100.0

Coefficient of Utilization



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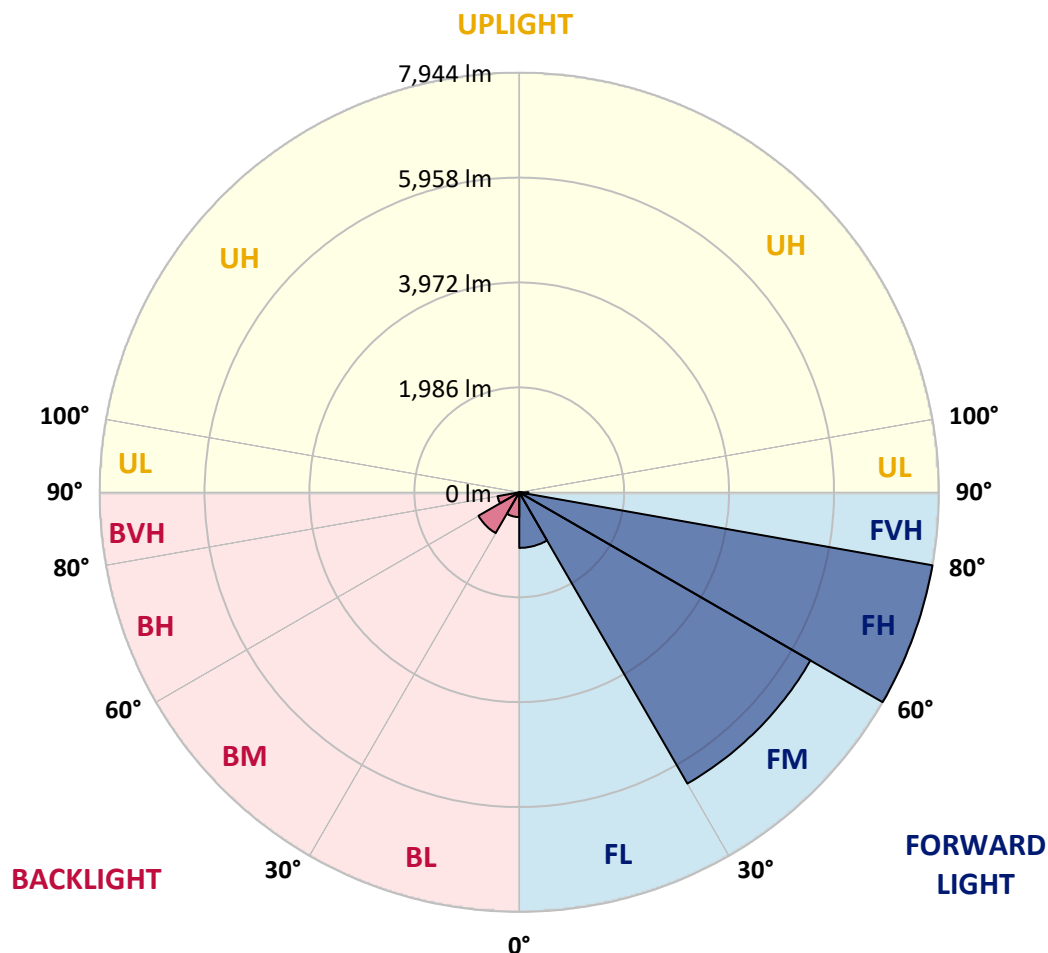
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1051.9	6.1			
FM	(30°-60°)	6366.0	36.8			
FH	(60°-80°)	7943.8	45.9			G4/12000
FVH	(80°-90°)	173.6	1.0			G2/225
BL	(0°-30°)	468.3	2.7	B1/500		
BM	(30°-60°)	890.3	5.1	B1/1000		
BH	(60°-80°)	416.6	2.4	B1/500		G1/500
BVH	(80°-90°)	1.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1734.6	1734.6	1734.6	1734.6	1734.6	1734.6	1734.6	1734.6	1734.6	1734.6	1734.6
2.5°	1927.0	1924.5	1913.2	1908.3	1880.7	1864.5	1858.0	1837.7	1808.5	1779.2	1746.8
5°	2146.1	2145.3	2124.2	2103.9	2052.0	2003.3	1994.3	1947.3	1881.5	1819.8	1758.1
7.5°	2370.2	2359.6	2338.5	2299.5	2224.1	2146.1	2138.8	2072.3	1978.9	1889.6	1801.2
10°	2560.1	2553.6	2526.0	2466.7	2378.3	2289.8	2280.9	2198.9	2093.4	1983.8	1871.0
12.5°	2707.8	2703.0	2666.4	2592.6	2498.4	2406.7	2394.5	2321.5	2208.6	2086.1	1952.9
15°	2797.9	2795.5	2750.8	2672.1	2579.6	2500.0	2489.5	2425.4	2320.6	2192.4	2042.2
17.5°	2819.0	2819.8	2773.6	2694.0	2617.7	2560.9	2552.8	2504.1	2416.4	2289.0	2131.5
20°	2771.9	2781.7	2740.3	2671.3	2624.2	2594.2	2587.7	2558.5	2484.6	2364.5	2202.9
22.5°	2705.4	2710.3	2681.8	2635.6	2616.1	2621.8	2618.5	2602.3	2539.8	2429.4	2273.6
25°	2664.8	2664.8	2647.8	2608.8	2621.8	2656.7	2657.5	2654.3	2604.7	2509.0	2359.6
27.5°	2663.2	2658.3	2638.8	2609.6	2645.3	2698.9	2702.1	2724.1	2693.2	2605.5	2466.7
30°	2728.1	2722.4	2681.0	2642.9	2688.3	2746.0	2754.1	2802.0	2786.6	2710.3	2586.1
32.5°	2879.9	2859.6	2767.9	2705.4	2739.5	2808.5	2819.0	2895.3	2919.7	2839.3	2701.3
35°	3087.7	3023.6	2891.3	2823.9	2827.1	2899.4	2909.1	3021.1	3093.4	2957.8	2790.6
37.5°	3374.2	3342.6	3127.5	2947.3	2961.9	3071.5	3099.9	3221.6	3201.3	3022.8	2892.1
40°	4002.5	3953.0	3724.1	3293.1	3090.9	3211.1	3220.0	3284.9	3286.6	3169.7	3103.1
42.5°	4858.0	4837.7	4596.6	3920.5	3345.0	3304.4	3320.7	3430.2	3552.8	3479.7	3476.5
45°	5805.3	5794.7	5539.0	4753.3	3858.8	3610.4	3630.7	3777.6	4012.2	4028.5	4131.5
47.5°	6567.4	6562.6	6415.7	5682.7	4645.3	4129.1	4135.6	4291.4	4703.8	4907.5	5072.3
50°	7262.3	7285.8	7169.7	6688.4	5716.8	4941.6	4926.2	5030.1	5692.4	6026.0	6230.6
52.5°	8228.2	8261.5	7936.0	7626.7	6841.0	5949.7	5937.6	6046.3	6880.8	7130.8	7167.3
55°	9081.3	9024.5	8767.1	8677.9	8211.9	7194.9	7191.6	7287.4	8030.1	8136.5	8203.8
57.5°	9457.9	9436.0	9560.2	9764.7	9647.8	8666.5	8659.2	8586.1	9058.5	9069.9	9276.9
60°	9695.7	9722.5	10103.2	10733.9	11025.3	10250.1	10203.0	9757.4	10040.7	10015.5	10237.1
62.5°	9517.2	9569.9	10255.0	11306.1	12056.1	11632.4	11565.9	10830.5	10880.0	10793.1	10999.3
65°	8569.1	8651.1	9773.7	11198.2	12567.5	12712.8	12645.4	11777.7	11546.4	11403.5	11289.1
67.5°	6957.9	7006.6	8178.7	10259.0	12337.0	13357.3	13343.5	12608.1	12049.7	11300.5	10412.5
69°	5750.1	5798.0	6926.2	9270.4	11829.7	13495.3	13522.1	12874.3	11953.9	10673.8	9225.8
70°	4870.2	4921.3	5972.5	8423.0	11241.2	13431.2	13479.0	12849.2	11679.5	9948.2	8184.3
72.5°	2554.4	2598.2	3677.0	5802.8	9164.1	12332.9	12478.2	11763.1	9900.3	7224.9	4839.3
75°	802.8	827.9	1435.9	3033.3	6274.4	9589.4	9622.7	9227.4	7030.1	3974.1	2015.4
77.5°	306.0	298.7	478.1	1117.7	3172.1	6038.2	6242.0	5766.3	3689.2	1405.0	465.1
80°	164.8	165.6	248.4	462.7	1357.2	3103.1	3275.2	2794.7	1310.9	438.3	107.1
82.5°	71.4	74.7	139.6	245.1	623.4	1144.5	1230.5	1024.4	500.8	294.6	39.8
85°	15.4	17.0	67.4	133.1	254.1	321.4	336.9	332.0	319.0	228.9	15.4
87.5°	0.0	0.0	30.0	47.9	64.1	73.1	64.1	83.6	176.1	154.2	8.1
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°	1734.6	1734.6	1734.6	1734.6	1734.6	1734.6	1734.6	1734.6	1734.6	1734.6	1734.6
2.5°	1736.2	1721.6	1696.4	1668.9	1649.4	1629.1	1612.8	1605.5	1597.4	1591.7	1599.0
5°	1733.0	1704.6	1655.9	1608.8	1574.7	1547.1	1524.4	1515.4	1506.5	1500.0	1499.2
7.5°	1761.4	1721.6	1646.9	1577.9	1525.2	1487.8	1457.0	1444.0	1433.5	1428.6	1424.5
10°	1815.8	1764.6	1664.8	1574.7	1506.5	1443.2	1376.6	1325.5	1292.2	1276.8	1271.1
12.5°	1886.4	1822.3	1698.9	1591.7	1492.7	1371.0	1229.7	1108.0	1029.2	1003.3	987.8
15°	1969.2	1889.6	1743.5	1613.7	1442.4	1220.0	980.5	821.4	748.4	733.8	717.5
17.5°	2048.7	1961.1	1797.1	1617.7	1332.0	974.8	718.4	610.4	582.0	591.7	594.2
20°	2118.5	2031.7	1849.9	1582.0	1131.5	731.3	556.0	529.2	539.8	558.4	561.7
22.5°	2189.1	2099.9	1898.6	1487.8	875.0	555.2	500.8	507.3	517.9	536.5	539.8
25°	2275.2	2182.7	1944.0	1315.0	656.7	472.4	475.7	485.4	495.9	513.0	514.6
27.5°	2374.2	2287.4	1974.0	1090.1	487.0	434.3	444.8	459.4	470.0	486.2	489.5
30°	2505.7	2425.4	1983.8	857.2	408.3	400.2	405.0	422.9	438.3	452.9	455.4
32.5°	2629.1	2561.7	1951.3	646.9	378.3	368.5	368.5	379.1	396.9	410.7	414.0
35°	2742.7	2698.9	1847.4	473.2	355.5	339.3	331.2	331.2	342.5	353.9	357.1
37.5°	2892.9	2891.3	1679.4	377.4	333.6	314.9	297.9	284.9	280.8	283.3	284.9
40°	3150.2	3152.6	1460.2	338.5	314.9	289.8	263.8	240.3	218.3	211.0	210.2
42.5°	3552.0	3515.5	1230.5	319.8	298.7	263.8	224.8	193.2	159.1	148.5	147.7
45°	4190.0	3973.3	987.0	302.8	281.7	234.6	185.9	142.9	115.3	107.1	107.1
47.5°	5119.4	4574.7	764.6	284.1	258.9	201.3	140.4	103.1	84.4	80.4	81.2
50°	6080.4	5164.0	586.0	260.6	231.3	166.4	103.9	74.7	64.1	64.1	64.9
52.5°	6932.7	5595.8	457.0	235.4	197.2	130.7	78.7	58.4	53.6	52.8	53.6
55°	7730.6	5874.3	349.8	206.2	156.7	97.4	60.1	47.9	44.6	43.0	42.2
57.5°	8500.1	6012.2	262.2	166.4	113.6	70.6	47.9	40.6	37.3	34.9	34.1
60°	9012.3	5900.2	180.2	122.6	78.7	51.1	39.8	34.9	30.8	28.4	27.6
62.5°	9301.2	5594.2	116.1	88.5	56.0	38.1	31.7	29.2	23.5	21.1	21.1
65°	9184.4	5089.3	81.2	63.3	40.6	28.4	23.5	23.5	17.0	13.8	13.0
67.5°	8138.9	4299.6	61.7	47.1	29.2	21.1	17.9	20.3	10.6	6.5	6.5
69°	7002.5	3563.4	52.8	39.0	24.4	17.0	15.4	18.7	7.3	4.9	4.1
70°	6086.1	3073.9	47.9	34.1	20.3	14.6	13.8	17.9	7.3	4.1	3.2
72.5°	3641.3	1714.3	36.5	24.4	13.0	11.4	11.4	20.3	7.3	4.1	3.2
75°	1471.6	603.9	26.8	17.0	9.7	9.7	13.8	26.0	6.5	3.2	2.4
77.5°	333.6	132.3	15.4	10.6	6.5	9.7	16.2	20.3	4.1	1.6	0.0
80°	81.2	32.5	9.7	6.5	4.1	7.3	12.2	11.4	0.8	0.0	0.0
82.5°	26.8	11.4	4.1	3.2	0.8	2.4	5.7	3.2	0.0	0.0	0.0
85°	11.4	6.5	1.6	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	7.3	2.4	0.0	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)