

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: P321517

Luminaire Tested: **GAN-SA3B-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11222 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

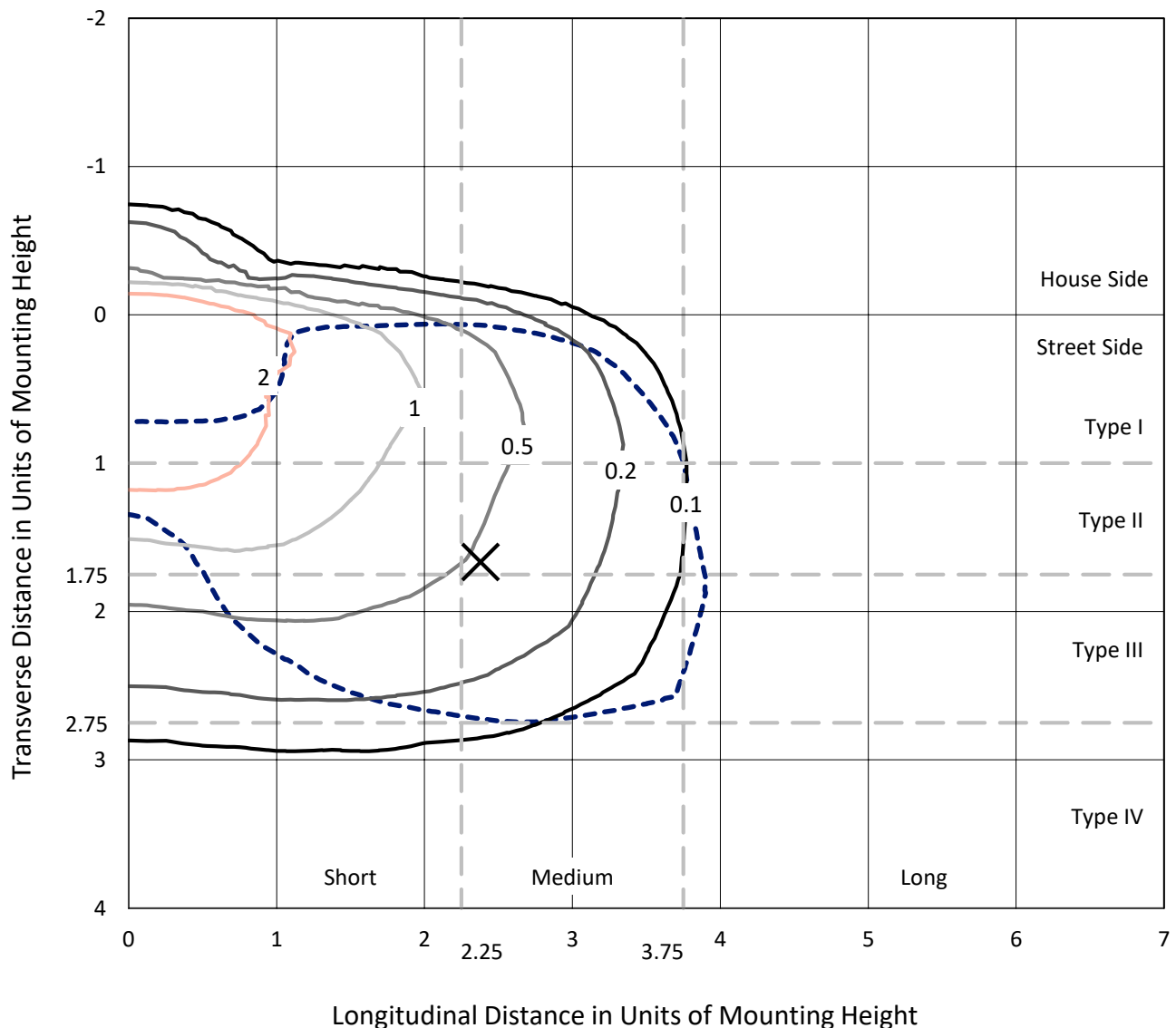
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

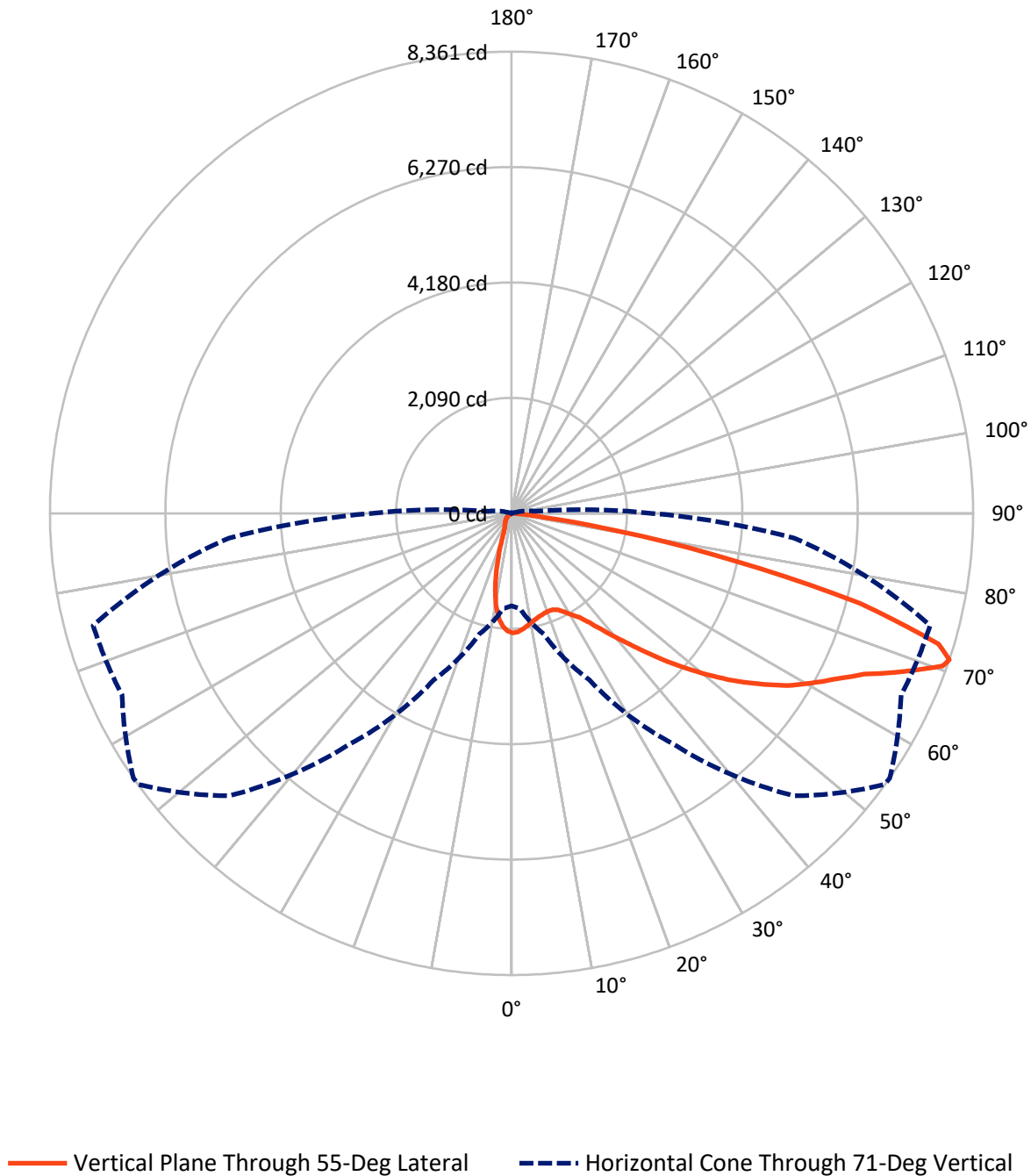
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	888.5	0.0	888.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	10333.5	0.0	10333.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	11222.0	0.0	11222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	1.6
10°-20°	416.6	3.7
20°-30°	669.5	6.0
30°-40°	1137.5	10.1
40°-50°	1765.5	15.7
50°-60°	2373.6	21.2
60°-70°	2903.7	25.9
70°-80°	1697.7	15.1
80°-90°	73.4	0.7
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°	11222.0	100.0
0°-180°	11222.0	100.0

Coefficient of Utilization



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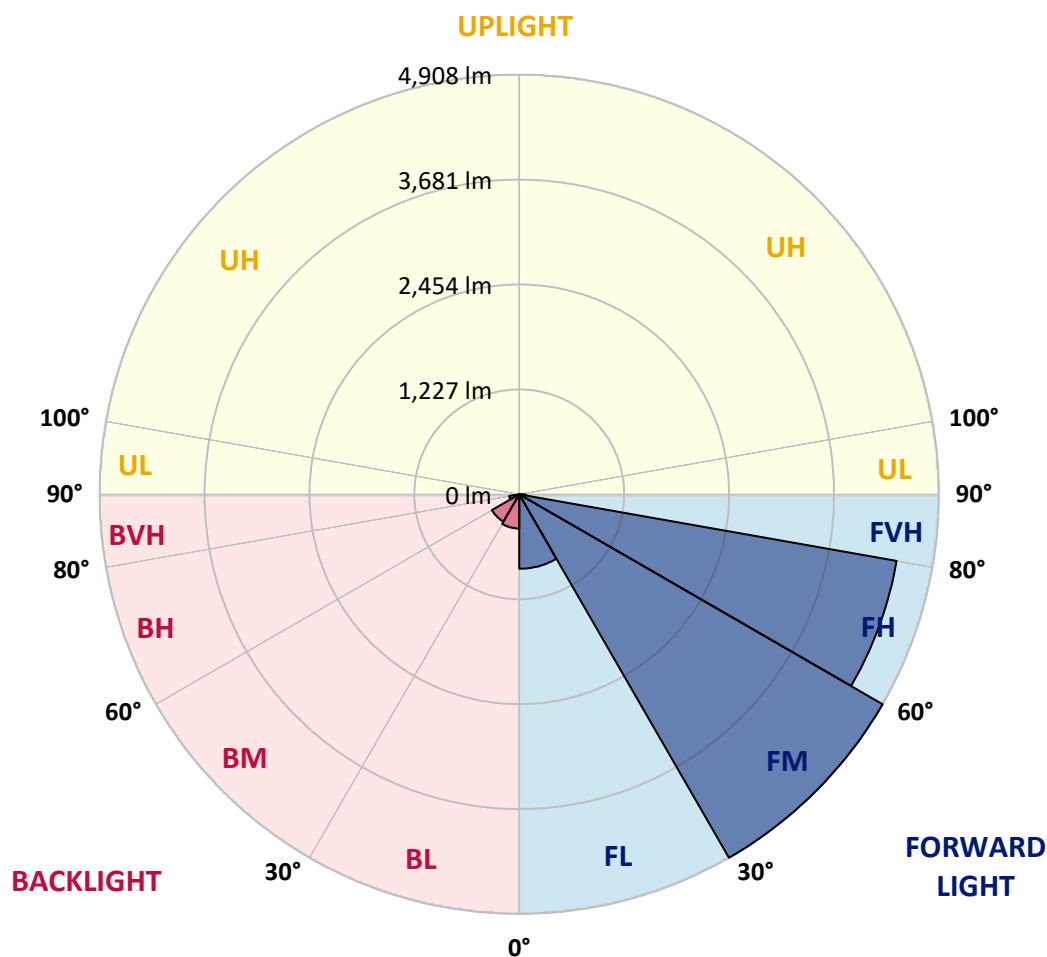
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	870.7	7.8			
FM	(30°-60°)	4908.2	43.7			
FH	(60°-80°)	4482.4	39.9			G2/5000
FVH	(80°-90°)	72.2	0.6			G1/100
BL	(0°-30°)	399.9	3.6	B1/500		
BM	(30°-60°)	368.4	3.3	B1/1000		
BH	(60°-80°)	119.0	1.1	B1/500		G1/500
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: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2100.7	2103.2	2112.3	2116.3	2125.9	2142.0	2150.1	2150.6	2163.7	2168.7	2172.8
5°	1952.1	1967.2	1982.3	1998.4	2027.6	2066.4	2104.7	2108.3	2150.6	2181.8	2198.5
7.5°	1824.1	1837.7	1855.8	1881.5	1922.8	1983.8	2047.8	2055.4	2135.5	2206.5	2243.8
10°	1692.6	1703.6	1729.9	1767.6	1824.6	1906.2	1992.4	2005.0	2121.9	2239.8	2305.3
12.5°	1552.0	1558.5	1590.3	1644.7	1728.3	1832.1	1945.5	1962.1	2113.3	2278.1	2377.9
15°	1445.2	1448.2	1478.4	1534.8	1630.6	1765.6	1909.2	1929.4	2115.3	2323.9	2457.0
17.5°	1417.9	1419.5	1435.6	1474.4	1559.0	1706.2	1880.5	1905.2	2121.4	2368.8	2536.6
20°	1528.3	1517.7	1501.1	1495.0	1531.3	1670.4	1863.4	1891.1	2129.4	2408.6	2608.1
22.5°	1831.1	1799.9	1730.9	1638.6	1582.7	1672.9	1867.9	1895.6	2155.1	2457.5	2690.8
25°	2280.6	2237.3	2119.9	1938.5	1764.1	1745.5	1905.7	1933.9	2205.0	2515.9	2769.9
27.5°	2792.0	2749.2	2605.6	2346.6	2049.3	1889.1	1992.4	2018.6	2279.1	2567.8	2830.3
30°	3281.8	3269.7	3100.4	2806.2	2408.1	2121.9	2104.2	2126.4	2334.0	2599.1	2878.2
32.5°	3697.0	3677.9	3541.8	3255.6	2818.8	2401.5	2235.8	2242.3	2375.3	2639.4	2940.7
35°	4082.0	4058.3	3938.9	3668.3	3240.0	2743.2	2438.3	2428.7	2465.5	2720.5	3031.4
37.5°	4418.1	4439.8	4307.2	4049.8	3617.9	3098.4	2711.4	2682.7	2606.6	2852.5	3162.9
40°	4699.3	4699.3	4630.2	4415.6	4026.1	3465.7	3020.3	2982.5	2818.8	3056.1	3329.7
42.5°	4800.5	4822.2	4847.9	4726.5	4391.4	3847.7	3364.5	3325.2	3117.6	3344.8	3540.3
45°	4806.6	4840.9	4972.4	4971.9	4721.4	4227.1	3752.5	3733.8	3500.5	3715.7	3801.3
47.5°	4721.4	4764.3	4980.9	5103.9	4983.0	4580.4	4176.7	4153.6	3950.5	4170.2	4074.4
50°	4589.9	4637.3	4889.2	5155.8	5160.8	4887.7	4623.7	4588.9	4445.8	4689.7	4356.6
52.5°	4354.6	4446.3	4807.1	5167.9	5277.7	5153.3	5049.0	5033.9	5000.1	5190.1	4581.4
55°	3851.2	3953.0	4601.0	5171.9	5386.1	5388.6	5447.5	5451.6	5519.6	5657.7	4748.6
57.5°	3613.4	3670.8	4241.2	5191.1	5546.8	5655.6	5853.7	5884.9	5990.2	6101.6	4939.6
60°	3463.7	3531.8	4063.9	5164.9	5799.3	6005.9	6230.1	6240.7	6353.5	6559.6	5198.1
62.5°	3344.3	3411.3	3952.0	5064.1	6082.9	6427.1	6597.9	6598.9	6683.6	7105.3	5491.9
65°	3049.5	3106.0	3725.8	4950.7	6270.4	6843.8	7025.2	7018.7	7087.7	7680.8	5833.0
67.5°	2623.2	2666.6	3263.7	4520.9	6199.8	7222.7	7670.2	7648.5	7564.9	8178.1	5967.1
70°	2028.2	2043.8	2572.4	3767.6	5538.7	7368.4	8293.5	8282.4	7857.6	8088.9	5475.8
71°	1676.4	1727.8	2267.0	3325.2	5095.8	7233.8	8354.0	8360.5	7784.1	7846.1	5137.7
72.5°	973.5	1017.4	1643.2	2553.7	4326.4	6672.5	8040.6	8087.9	7440.4	7136.6	4388.4
75°	208.6	223.2	609.2	1236.0	2379.9	4676.6	6346.5	6515.3	6064.3	4855.0	2644.9
77.5°	145.1	156.7	261.0	560.8	786.6	2310.8	3942.4	4132.9	3623.0	1824.6	846.5
80°	114.9	128.0	203.6	277.1	212.6	745.3	1846.8	1963.2	1208.3	407.1	142.6
82.5°	64.0	76.1	158.7	149.7	81.6	141.6	517.0	584.5	241.9	82.1	33.8
85°	18.6	22.7	102.3	108.8	34.8	27.2	88.2	109.3	45.9	21.7	15.1
87.5°	0.0	0.0	49.4	41.8	10.1	4.0	8.1	9.1	9.1	9.1	10.1
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°	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2172.8	2176.3	2163.7	2147.1	2129.4	2107.8	2085.1	2067.5	2067.0	2058.4	2049.8
5°	2199.5	2197.5	2162.7	2109.8	2047.3	1982.3	1920.3	1850.3	1827.1	1798.4	1788.8
7.5°	2248.9	2234.7	2161.2	2045.3	1908.2	1772.2	1631.6	1490.0	1429.5	1375.1	1365.5
10°	2310.8	2284.1	2151.6	1948.5	1697.1	1446.2	1234.0	1041.5	956.9	891.9	888.9
12.5°	2375.3	2334.5	2124.9	1802.4	1420.5	1067.7	823.4	633.9	563.3	518.0	522.0
15°	2442.9	2381.9	2067.5	1605.4	1105.5	724.6	505.9	394.5	366.3	354.7	357.8
17.5°	2511.9	2414.6	1987.3	1368.1	794.6	467.6	350.2	319.0	319.0	321.5	322.5
20°	2571.8	2432.3	1869.4	1102.0	538.7	340.6	306.4	301.8	304.3	308.4	308.9
22.5°	2631.3	2433.3	1715.7	832.4	376.9	298.3	291.8	289.7	291.2	295.8	296.3
25°	2679.7	2421.2	1523.3	592.1	300.8	281.2	278.1	277.1	278.1	283.7	283.7
27.5°	2699.3	2377.3	1288.4	416.2	269.6	262.0	261.0	262.0	263.5	267.6	268.1
30°	2701.3	2300.8	1032.5	301.3	244.4	236.3	238.3	241.9	240.4	239.3	240.4
32.5°	2706.4	2212.1	783.0	247.9	223.2	210.6	208.1	208.1	202.1	198.5	196.5
35°	2723.0	2107.8	567.9	222.7	201.6	186.9	177.4	166.3	154.7	148.6	147.1
37.5°	2749.2	1998.4	406.6	206.1	182.4	165.8	147.6	128.0	111.4	106.8	106.8
40°	2797.1	1885.6	300.8	193.0	167.3	146.6	119.4	93.7	78.6	76.1	76.1
42.5°	2872.7	1766.6	239.9	181.4	154.2	127.0	91.2	68.0	56.9	55.4	54.9
45°	2951.3	1635.6	209.6	170.3	140.1	104.3	67.5	50.4	43.8	42.3	42.3
47.5°	3029.9	1496.0	195.0	159.7	126.5	81.1	50.4	39.8	36.8	36.8	37.3
50°	3096.4	1350.4	184.4	148.1	108.8	61.5	39.8	33.8	32.8	34.8	35.3
52.5°	3113.0	1207.3	171.3	133.5	87.2	46.9	32.8	29.7	29.7	29.7	29.7
55°	3102.9	1096.5	154.2	115.4	64.5	37.3	28.2	26.2	25.7	25.7	25.7
57.5°	3137.2	1031.0	123.5	89.7	46.4	30.2	24.7	23.2	22.2	21.7	21.7
60°	3206.2	988.1	88.2	64.5	34.8	25.2	21.2	19.7	18.1	17.1	17.1
62.5°	3298.0	950.8	65.5	47.9	26.7	20.2	17.6	16.1	14.1	13.1	13.1
65°	3368.5	884.3	49.9	35.8	20.2	16.1	13.6	13.1	10.1	9.1	8.6
67.5°	3260.7	738.2	40.3	26.2	15.1	12.6	10.6	10.1	6.0	5.0	5.0
70°	2796.6	514.0	32.2	19.1	11.1	10.1	8.6	6.6	4.5	4.0	4.0
71°	2536.1	429.3	29.2	16.1	9.6	9.6	8.1	5.5	4.0	3.5	3.5
72.5°	2106.8	304.9	24.7	12.6	8.6	10.1	8.6	5.0	4.0	3.5	3.0
75°	1222.9	127.5	17.1	8.6	6.6	12.1	11.1	4.5	3.0	2.5	2.5
77.5°	367.8	46.9	9.6	5.5	5.0	10.6	12.6	4.0	1.5	0.5	0.5
80°	67.0	20.2	6.0	3.5	3.5	6.6	9.6	2.0	0.0	0.0	0.0
82.5°	23.7	10.1	3.5	2.0	1.5	3.0	4.5	0.0	0.0	0.0	0.0
85°	13.6	7.1	2.0	1.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
87.5°	9.1	2.0	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)