

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: P193782

Luminaire Tested: **GAN-AF-04-LED-U-SL4-8030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL4-8030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15042 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 171
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: 28.75 FT

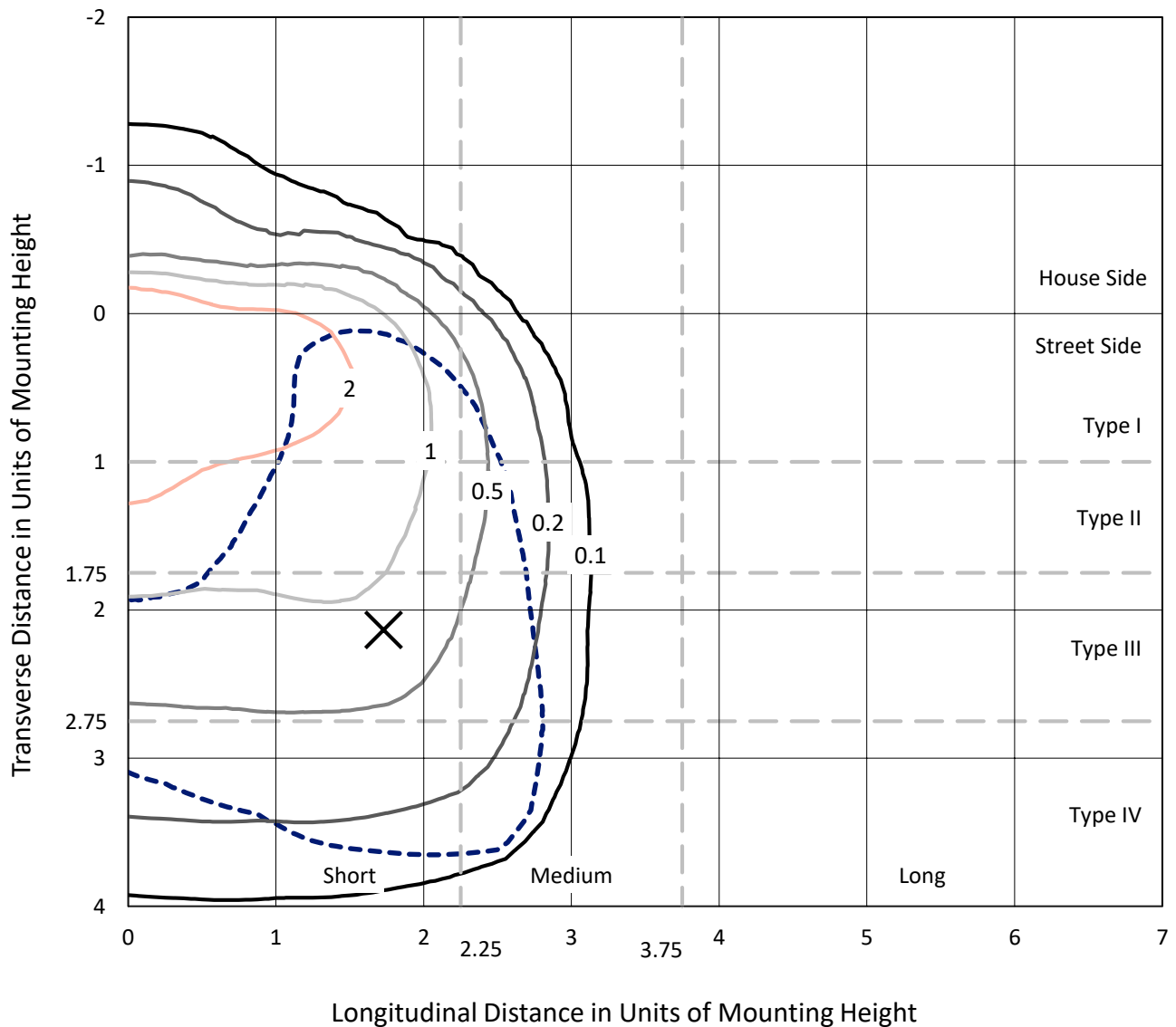


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

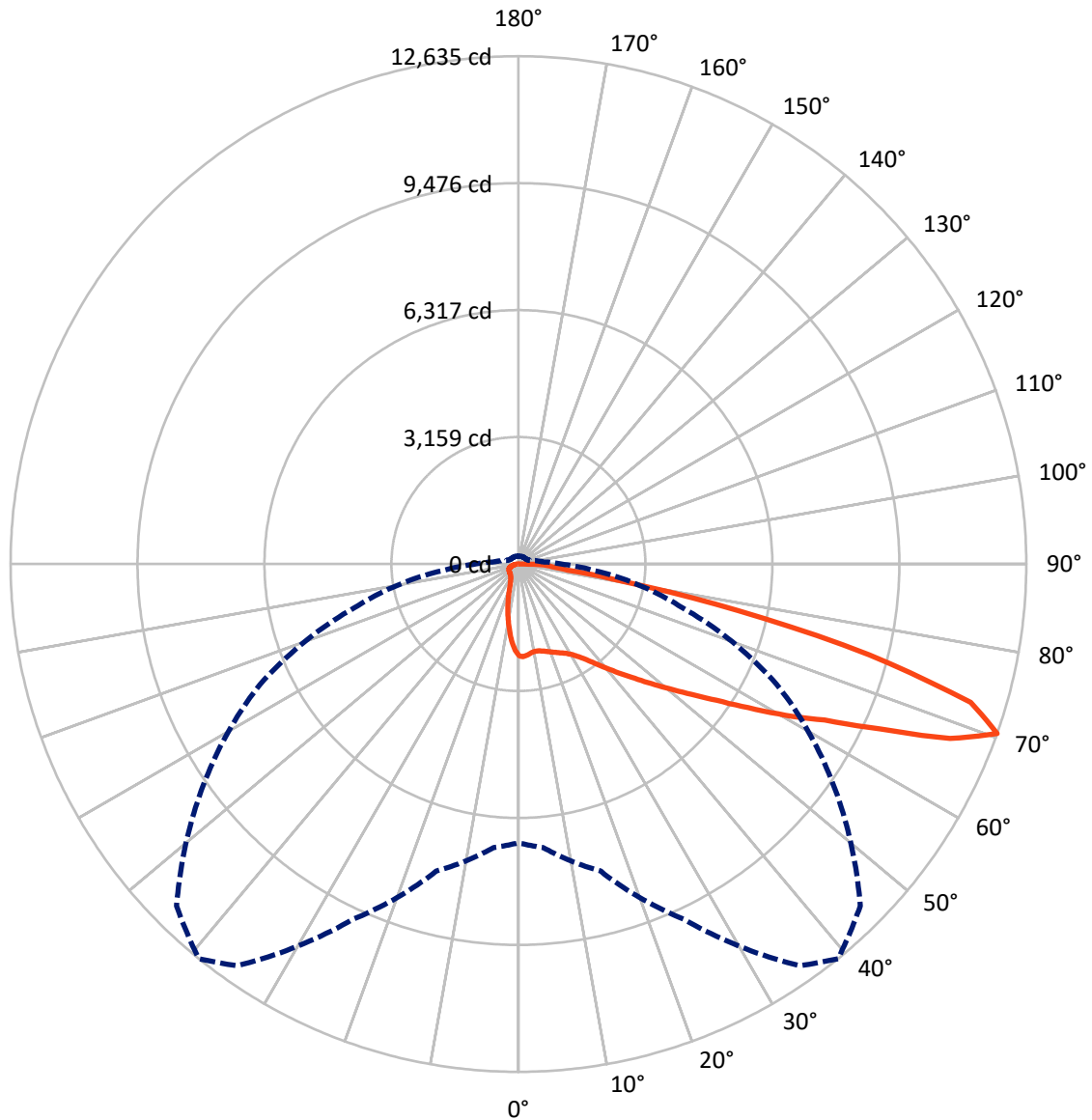


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1710.8	0.0	1710.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	13331.2	0.0	13331.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	15042.0	0.0	15042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	1.3
10°-20°	489.9	3.3
20°-30°	762.7	5.1
30°-40°	1188.2	7.9
40°-50°	1994.8	13.3
50°-60°	3168.9	21.1
60°-70°	4227.0	28.1
70°-80°	2552.6	17.0
80°-90°	462.0	3.1
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°	15042.0	100.0
0°-180°	15042.0	100.0

Coefficient of Utilization



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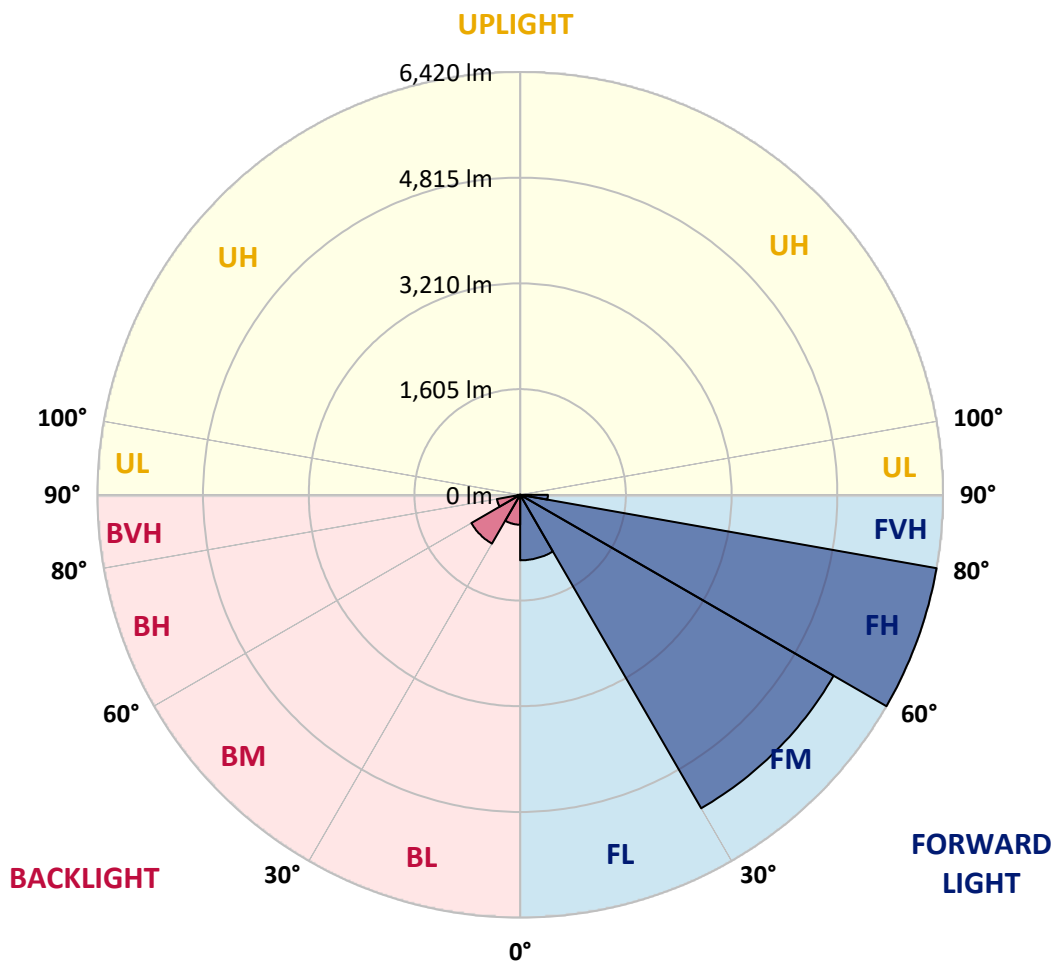
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	994.7	6.6			
FM	(30°-60°)	5495.8	36.5			
FH	(60°-80°)	6420.4	42.7			G3/7500
FVH	(80°-90°)	420.3	2.8			G3/500
BL	(0°-30°)	453.8	3.0	B1/500		
BM	(30°-60°)	856.1	5.7	B1/1000		
BH	(60°-80°)	359.2	2.4	B1/500		G1/500
BVH	(80°-90°)	41.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6
2.5°	2328.0	2327.2	2321.1	2316.5	2312.7	2311.1	2314.2	2302.7	2292.8	2280.5	2267.5
5°	2310.4	2309.6	2299.7	2290.5	2281.3	2278.3	2277.5	2256.8	2244.6	2226.3	2201.8
7.5°	2291.3	2287.4	2274.4	2259.1	2243.1	2235.4	2227.8	2201.0	2187.2	2168.9	2140.6
10°	2271.4	2266.8	2254.5	2239.3	2224.0	2212.5	2199.5	2173.5	2159.0	2145.2	2112.3
12.5°	2250.7	2246.9	2243.8	2237.0	2226.3	2216.3	2206.4	2184.2	2168.9	2152.8	2114.6
15°	2247.7	2246.1	2253.0	2257.6	2251.5	2245.4	2234.7	2215.5	2199.5	2183.4	2133.7
17.5°	2272.1	2271.4	2289.0	2301.2	2298.1	2287.4	2272.9	2251.5	2238.5	2224.7	2162.8
20°	2325.7	2329.5	2350.9	2367.0	2351.7	2336.4	2312.7	2282.8	2276.0	2269.8	2192.6
22.5°	2426.6	2430.4	2445.7	2451.9	2412.1	2389.9	2357.0	2318.8	2314.2	2318.8	2228.5
25°	2584.2	2580.3	2578.0	2555.1	2482.4	2448.0	2406.0	2366.2	2368.5	2389.1	2279.0
27.5°	2792.9	2772.3	2740.2	2671.3	2555.9	2517.6	2466.4	2429.7	2444.2	2484.0	2354.7
30°	3009.4	2986.4	2912.3	2799.8	2652.2	2610.2	2552.8	2511.5	2549.7	2612.5	2455.7
32.5°	3209.7	3206.7	3098.1	2953.5	2785.3	2748.6	2691.2	2644.6	2706.5	2802.1	2607.1
35°	3428.5	3435.4	3305.3	3131.7	2965.0	2926.8	2885.5	2850.3	2932.9	3064.4	2826.6
37.5°	3662.5	3676.3	3522.5	3326.8	3170.0	3153.9	3129.4	3114.2	3241.9	3423.9	3133.3
40°	3975.3	3961.5	3748.1	3547.0	3421.6	3420.8	3413.2	3431.5	3644.1	3893.5	3527.1
42.5°	4310.3	4269.7	3987.5	3783.3	3697.7	3723.7	3739.0	3813.9	4128.2	4464.0	4007.4
45°	4671.2	4580.2	4236.1	4033.4	4004.3	4059.4	4111.4	4274.3	4698.0	5113.3	4533.6
47.5°	4959.5	4871.6	4493.0	4295.7	4359.2	4442.6	4542.7	4800.5	5335.8	5784.0	5052.8
50°	5186.7	5129.3	4752.3	4601.6	4750.0	4878.5	5042.1	5396.2	5999.6	6437.1	5533.9
52.5°	5406.9	5364.1	5013.8	4915.2	5208.9	5386.3	5608.8	6035.6	6680.3	7079.5	5938.5
55°	5605.8	5575.2	5295.3	5306.0	5748.8	5979.8	6259.7	6763.6	7422.1	7652.3	6281.1
57.5°	5829.9	5790.9	5616.5	5796.2	6442.4	6742.2	7106.3	7581.9	8118.1	8161.6	6541.9
60°	6055.5	6021.8	5972.9	6362.1	7323.5	7638.5	7983.5	8375.0	8823.9	8557.0	6526.6
62.5°	6251.2	6255.1	6341.5	6956.4	8186.1	8550.9	8971.5	9358.5	9462.5	8625.9	6044.0
65°	6583.2	6643.6	6901.3	7797.6	9400.6	9888.5	10404.7	10342.8	9639.2	7982.7	5009.3
67.5°	6977.8	7084.1	7606.4	8918.8	10935.5	11583.2	11782.8	10565.3	8931.8	6489.1	3570.7
70°	6938.0	7084.1	7910.8	9754.7	12200.4	12634.8	12029.1	9561.9	7092.5	4239.1	1896.6
72.5°	6161.0	6369.8	7290.6	9371.5	11802.0	11763.7	10443.0	7128.4	4213.9	1702.4	741.1
75°	4695.7	4906.8	5699.1	7403.8	9327.9	9006.7	7409.9	3937.8	1599.1	676.1	467.3
77.5°	2701.2	2864.8	3476.7	4540.5	5917.8	5588.2	4124.4	1751.3	778.5	471.1	364.8
80°	1508.1	1599.1	1970.8	2303.5	2900.0	2658.3	1845.4	1088.3	581.2	341.9	281.4
82.5°	1192.3	1273.3	1593.8	1453.1	1324.6	1222.1	1060.0	969.0	464.2	215.7	168.2
85°	1041.6	1118.9	1349.1	1144.1	904.7	829.8	861.1	953.7	361.0	130.0	143.8
87.5°	965.1	1068.4	1202.2	881.8	704.4	624.1	794.6	1045.4	116.2	81.1	58.1
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°	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6
2.5°	2256.1	2243.8	2224.0	2206.4	2178.8	2164.3	2148.2	2136.8	2127.6	2119.9	2132.2
5°	2186.5	2163.5	2121.5	2076.4	2022.8	1980.8	1945.6	1912.7	1889.8	1874.5	1885.2
7.5°	2120.7	2083.2	2017.5	1935.6	1843.9	1765.9	1701.6	1645.0	1606.0	1580.8	1590.7
10°	2083.2	2036.6	1934.9	1806.4	1671.0	1549.4	1448.5	1361.3	1300.9	1266.5	1271.8
12.5°	2074.1	2013.6	1872.9	1696.3	1511.2	1342.2	1199.9	1079.1	994.2	949.8	951.4
15°	2080.9	2003.7	1814.8	1590.7	1356.7	1143.3	965.9	819.1	720.4	669.9	669.2
17.5°	2092.4	1996.1	1753.6	1476.8	1199.9	952.1	754.1	610.3	523.1	482.6	479.5
20°	2104.7	1983.8	1684.8	1353.6	1037.0	774.7	590.4	478.0	422.9	400.7	399.2
22.5°	2122.2	1973.1	1613.7	1223.6	877.2	630.9	485.6	409.9	380.9	369.4	367.9
25°	2150.5	1967.8	1538.0	1088.3	733.4	527.7	422.9	376.3	359.4	351.8	351.0
27.5°	2198.0	1975.4	1466.8	956.7	616.4	458.1	387.7	359.4	347.2	340.3	339.6
30°	2259.1	1999.1	1391.9	832.1	525.4	410.7	366.3	348.0	338.0	331.1	331.1
32.5°	2360.9	2038.9	1313.1	724.2	460.4	377.8	350.3	338.0	329.6	324.3	323.5
35°	2510.7	2113.8	1239.7	634.8	413.7	354.1	336.5	327.3	321.2	318.1	318.1
37.5°	2728.7	2232.4	1174.7	570.5	385.4	338.0	323.5	316.6	312.8	312.8	312.8
40°	3021.6	2396.0	1121.9	527.7	369.4	326.6	313.6	308.2	305.9	306.7	306.7
42.5°	3383.4	2608.6	1086.7	497.9	361.7	319.7	306.7	302.1	299.8	299.0	299.8
45°	3795.6	2850.3	1082.9	475.7	354.1	315.1	302.1	297.5	292.9	289.8	289.8
47.5°	4196.3	3095.8	1114.3	468.0	345.7	309.7	298.3	293.7	286.8	279.9	279.9
50°	4550.4	3304.6	1156.3	471.1	342.6	302.1	292.1	289.8	279.1	271.5	270.7
52.5°	4831.8	3465.2	1190.7	480.3	345.7	296.7	284.5	285.3	273.8	265.4	264.6
55°	5057.4	3570.7	1181.6	489.5	352.6	293.7	277.6	279.1	270.0	261.6	261.6
57.5°	5156.1	3531.7	1079.9	481.8	357.9	294.4	272.3	278.4	270.7	263.1	263.1
60°	4944.3	3185.3	889.4	448.2	351.0	292.1	270.0	281.4	280.7	273.0	272.3
62.5°	4303.4	2565.0	689.8	398.4	327.3	280.7	263.8	280.7	289.1	286.8	286.0
65°	3316.8	1827.0	526.9	344.9	295.2	261.6	247.8	263.1	274.6	277.6	276.8
67.5°	2152.8	1119.6	406.1	294.4	259.3	239.4	227.1	234.0	236.3	236.3	234.8
70°	1058.4	602.6	323.5	247.8	222.5	215.7	208.8	205.0	201.1	198.1	198.1
72.5°	522.3	393.9	266.1	209.5	192.0	188.9	187.4	182.8	179.7	175.9	174.4
75°	386.2	320.4	226.4	176.7	165.2	162.1	165.2	161.4	160.6	157.5	156.0
77.5°	317.4	273.0	195.0	151.4	141.5	136.1	140.7	141.5	142.2	137.7	136.1
80°	257.7	231.0	162.9	125.4	116.2	112.4	115.5	121.6	123.1	116.2	113.2
82.5°	185.8	188.9	131.5	97.9	90.2	87.2	93.3	100.9	102.5	92.5	90.2
85°	156.0	157.5	100.9	69.6	61.9	57.4	67.3	74.9	80.3	70.4	68.1
87.5°	65.0	92.5	58.1	39.0	34.4	29.8	35.9	39.8	48.2	44.4	43.6
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)