

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: P318018

Luminaire Tested: **GAN-SA4D-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25687 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

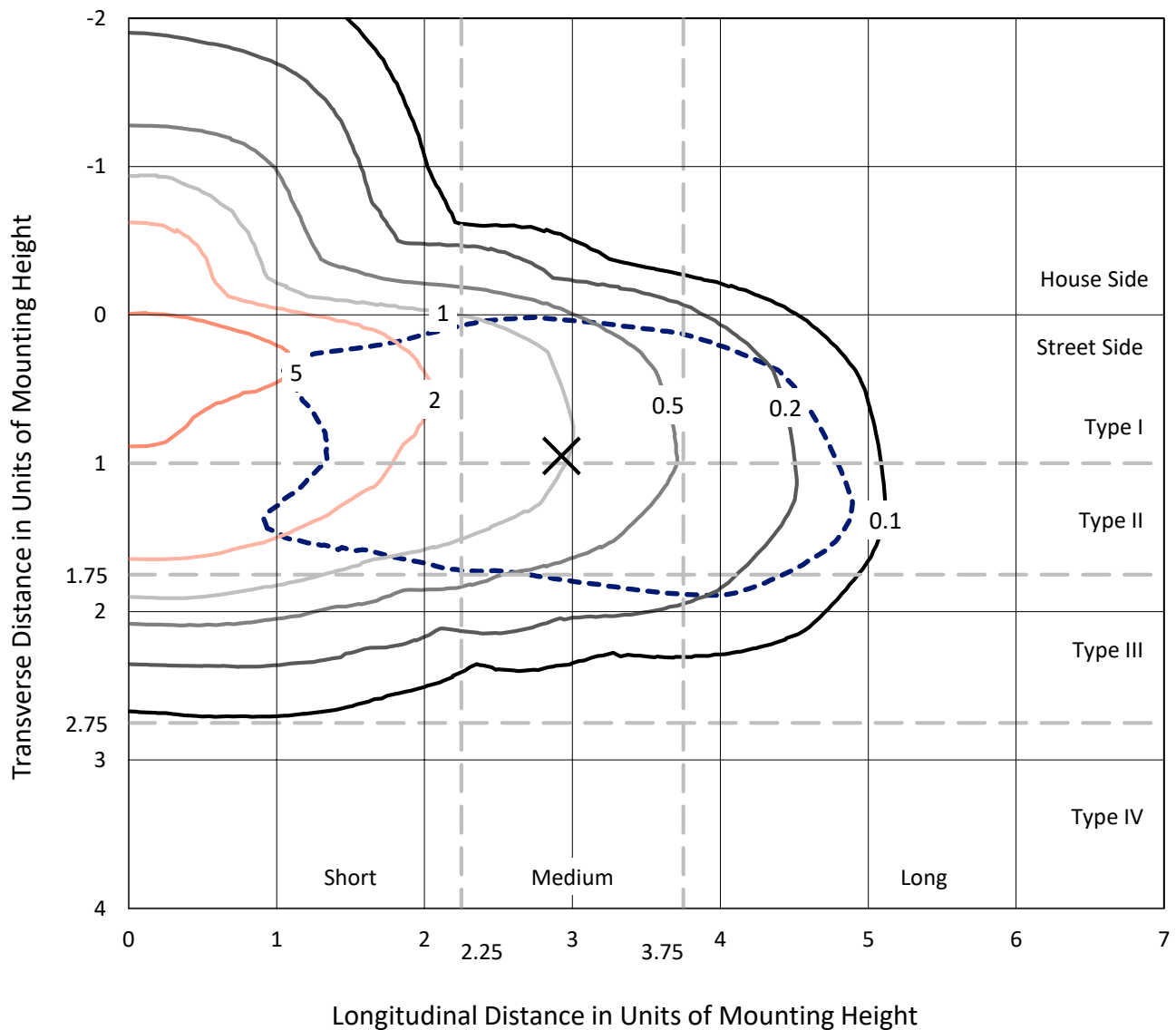
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

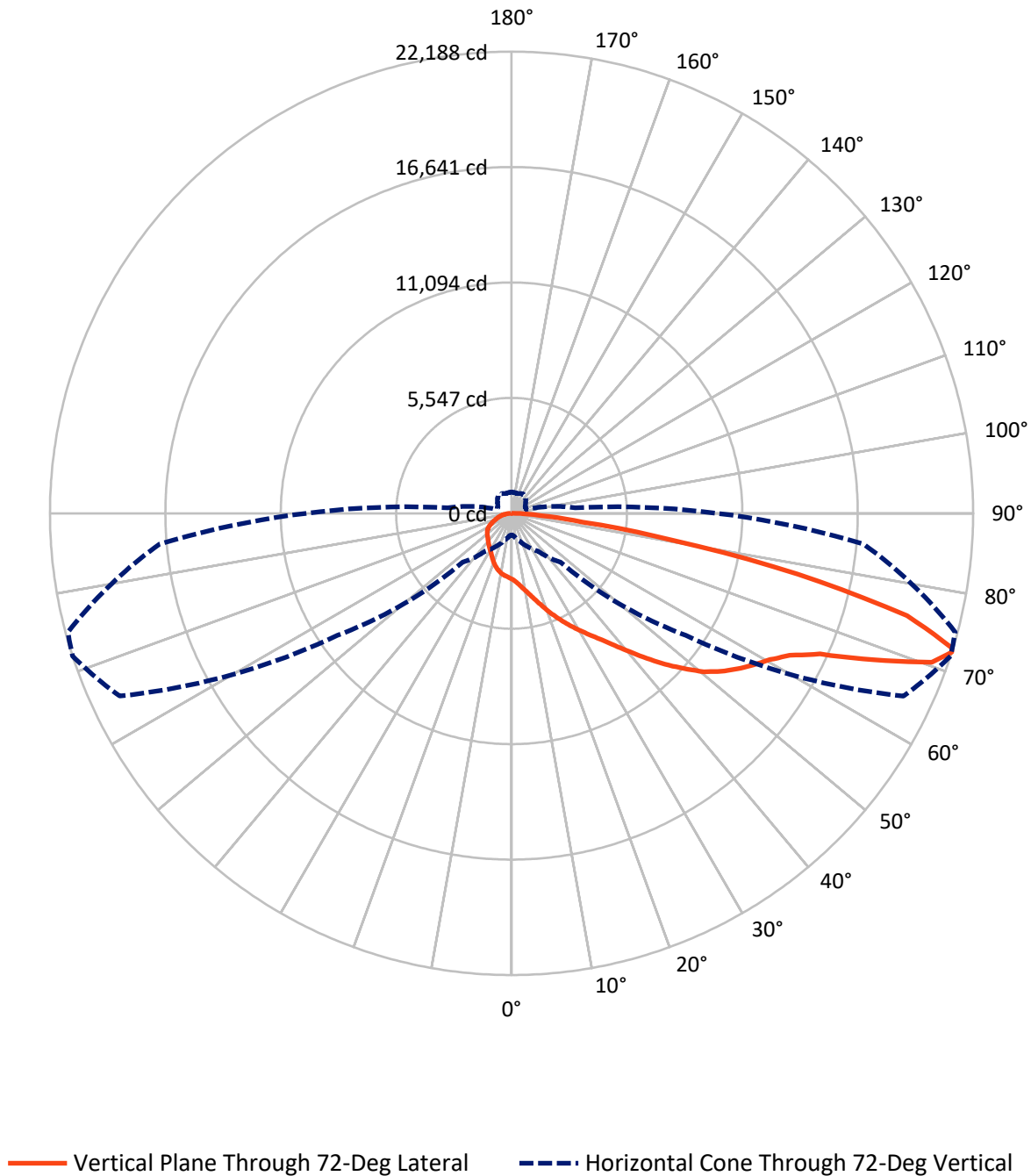
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	4765.1	0.0	4765.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	20921.9	0.0	20921.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	25687.0	0.0	25687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	1.2
10°-20°	1023.3	4.0
20°-30°	1793.1	7.0
30°-40°	2658.6	10.4
40°-50°	3888.5	15.1
50°-60°	5350.5	20.8
60°-70°	5956.7	23.2
70°-80°	4036.3	15.7
80°-90°	663.4	2.6
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°	25687.0	100.0
0°-180°	25687.0	100.0

Coefficient of Utilization



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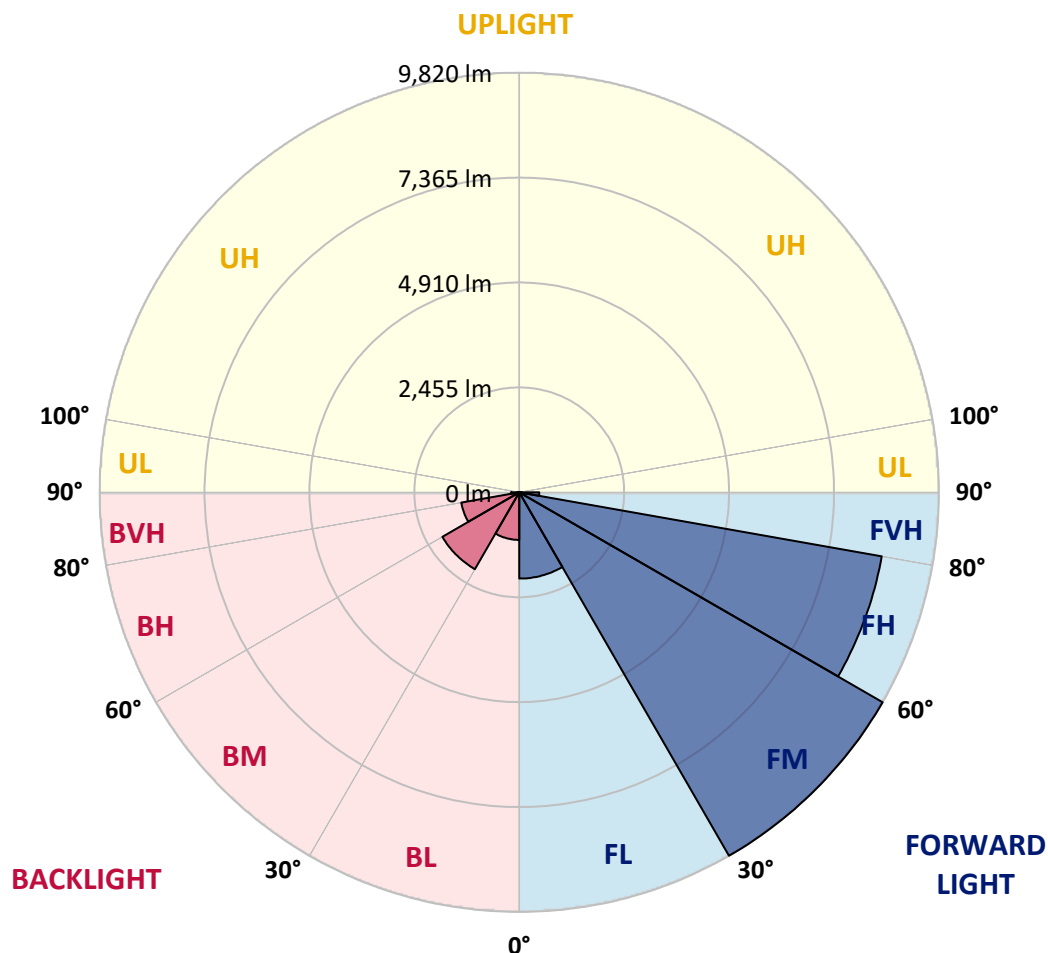
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2019.2	7.9			
FM	(30°-60°)	9820.5	38.2			
FH	(60°-80°)	8614.3	33.5			G4/12000
FVH	(80°-90°)	467.9	1.8			G3/500
BL	(0°-30°)	1113.9	4.3	B3/2500		
BM	(30°-60°)	2077.1	8.1	B2/2500		
BH	(60°-80°)	1378.6	5.4	B3/2500		G3/2500
BVH	(80°-90°)	195.4	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3160.2	3160.2	3160.2	3160.2	3160.2	3160.2	3160.2	3160.2	3160.2	3160.2	3160.2
2.5°	3491.0	3485.7	3467.1	3467.1	3431.7	3401.6	3345.0	3307.0	3261.9	3246.0	3192.9
5°	3828.8	3830.6	3807.6	3791.7	3739.5	3675.8	3579.4	3491.8	3404.3	3368.9	3260.1
7.5°	4112.7	4109.2	4103.0	4089.7	4041.1	3975.6	3845.6	3715.6	3586.5	3533.4	3345.9
10°	4294.9	4302.9	4308.2	4314.4	4294.0	4247.2	4124.2	3965.9	3797.0	3724.5	3448.5
12.5°	4386.9	4401.1	4425.8	4468.3	4501.9	4496.6	4407.3	4239.2	4038.4	3947.3	3576.8
15°	4440.9	4459.4	4498.4	4574.4	4669.1	4723.0	4699.1	4547.0	4323.2	4210.9	3733.3
17.5°	4474.5	4489.5	4549.7	4651.4	4792.0	4935.3	4998.1	4870.7	4645.2	4516.9	3912.8
20°	4497.5	4509.0	4584.1	4703.6	4885.8	5113.9	5289.1	5257.2	4999.8	4833.6	4100.4
22.5°	4548.8	4558.5	4630.1	4750.4	4952.1	5246.6	5569.4	5617.2	5374.0	5185.6	4301.1
25°	4692.1	4692.1	4752.2	4836.2	5025.5	5361.6	5806.5	6017.9	5756.1	5536.7	4486.9
27.5°	4965.4	4962.7	4984.8	5014.0	5157.3	5478.3	6017.9	6371.6	6152.3	5912.6	4667.3
30°	5289.1	5306.8	5309.4	5295.3	5362.5	5624.3	6213.3	6744.9	6551.2	6292.9	4852.1
32.5°	5705.6	5717.1	5703.9	5657.0	5647.3	5831.2	6405.3	7135.8	6982.8	6690.0	5021.1
35°	6234.5	6212.4	6170.9	6075.3	5984.2	6108.1	6624.6	7526.7	7467.5	7170.3	5253.7
37.5°	6801.5	6802.4	6751.1	6534.4	6408.8	6461.9	6927.1	7969.9	8053.9	7741.7	5551.7
40°	7256.1	7280.0	7311.8	7027.0	6864.3	6937.7	7311.8	8483.7	8747.3	8419.2	5940.0
42.5°	7573.6	7601.0	7691.3	7512.6	7343.7	7479.9	7764.7	9032.1	9525.6	9201.0	6394.6
45°	7909.7	7924.8	7988.4	7911.5	7803.6	8110.5	8275.0	9599.9	10349.1	10034.2	6903.2
47.5°	8263.5	8279.4	8344.9	8293.6	8237.0	8699.5	8807.4	10135.0	11138.0	10949.6	7446.3
50°	8700.4	8711.0	8772.9	8680.1	8697.8	9143.5	9283.3	10625.9	11965.0	11772.1	7991.1
52.5°	9296.5	9299.2	9385.0	9301.0	9217.8	9469.0	9692.8	11088.5	12613.3	12522.2	8535.9
55°	9763.5	9791.8	10073.1	10055.4	10007.7	9764.4	10035.1	11528.9	13191.7	13235.0	9114.3
57.5°	9465.5	9576.0	10145.6	10547.2	10938.1	10499.4	10497.6	12025.1	13729.5	13934.6	9750.3
60°	8290.0	8440.4	9279.7	10170.4	11393.6	11778.3	11458.2	12631.0	14272.5	14628.1	10547.2
62.5°	5920.6	6168.2	7305.6	8727.8	10769.2	12625.6	13412.8	13592.4	15011.0	15431.2	11582.9
65°	2993.0	3180.5	4134.0	5847.2	8604.0	12072.0	15537.3	15697.4	16294.4	16667.6	13177.6
67.5°	1818.4	1889.2	2354.4	3252.2	5274.9	9403.6	16230.7	19206.0	18777.9	18976.1	15451.5
70°	1340.0	1392.1	1682.2	2159.8	3033.7	5518.1	14102.7	21709.9	21428.7	21406.6	17132.0
72°	1043.7	1081.7	1338.2	1745.0	2218.2	3310.5	10221.7	20785.7	22187.5	22076.1	16978.1
72.5°	989.7	1023.3	1256.8	1642.4	2096.2	3001.0	9190.4	20162.1	22132.7	22082.3	16779.1
75°	779.2	803.1	930.5	1270.1	1640.7	1702.6	5036.1	15624.8	19634.1	20450.5	15091.5
77.5°	644.8	648.3	715.5	924.3	1278.9	1203.7	2473.8	10840.8	14059.4	14957.1	10690.5
80°	525.4	529.8	561.6	648.3	967.6	890.6	1174.6	6233.7	7871.7	7881.4	5083.9
82.5°	418.3	419.2	454.6	474.1	695.2	636.8	673.1	2926.7	3439.7	3308.8	1827.3
85°	294.5	288.3	444.0	389.2	454.6	408.6	371.5	1158.6	1422.2	1360.3	572.2
87.5°	98.2	101.7	197.2	252.1	265.3	231.7	165.4	444.0	536.9	532.4	181.3
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°	3160.2	3160.2	3160.2	3160.2	3160.2	3160.2	3160.2	3160.2	3160.2	3160.2	3160.2
2.5°	3176.1	3147.8	3106.2	3060.2	3024.0	2986.8	2959.4	2945.2	2929.3	2916.1	2932.0
5°	3209.7	3156.6	3068.2	2981.5	2917.8	2861.2	2820.5	2799.3	2779.9	2766.6	2768.4
7.5°	3264.5	3178.7	3030.2	2903.7	2815.2	2754.2	2712.6	2698.5	2686.1	2682.6	2687.0
10°	3322.9	3196.4	2979.7	2811.7	2710.9	2660.5	2641.9	2651.6	2660.5	2668.4	2677.3
12.5°	3389.2	3212.4	2906.3	2703.8	2618.0	2598.5	2617.1	2659.6	2690.5	2709.1	2720.6
15°	3475.9	3226.5	2821.4	2595.9	2538.4	2560.5	2623.3	2696.7	2750.7	2785.2	2790.5
17.5°	3555.5	3225.6	2712.6	2487.1	2473.8	2538.4	2633.0	2736.5	2809.0	2857.7	2867.4
20°	3637.8	3201.7	2586.2	2381.0	2408.4	2514.5	2637.5	2762.2	2849.7	2906.3	2919.6
22.5°	3714.7	3160.2	2447.3	2284.6	2353.5	2482.7	2620.7	2747.1	2834.7	2880.7	2894.8
25°	3766.9	3087.6	2306.7	2203.2	2304.9	2443.8	2565.8	2667.5	2733.0	2756.0	2759.5
27.5°	3793.4	2993.0	2174.0	2132.4	2254.5	2380.1	2464.1	2514.5	2533.1	2531.3	2527.8
30°	3797.0	2868.3	2059.9	2074.9	2196.1	2286.3	2326.1	2316.4	2292.5	2251.8	2255.4
32.5°	3785.5	2727.7	1964.4	2020.1	2121.8	2172.2	2174.0	2127.1	2063.4	1998.9	1981.2
35°	3789.0	2589.7	1880.4	1958.2	2031.6	2053.7	2033.4	1964.4	1877.7	1794.6	1776.9
37.5°	3827.9	2469.4	1807.8	1886.6	1931.7	1937.0	1907.8	1835.3	1771.6	1690.2	1683.1
40°	3920.8	2383.6	1738.8	1806.1	1831.7	1834.4	1792.8	1741.5	1746.8	1703.5	1702.6
42.5°	4088.0	2346.5	1677.8	1722.0	1738.0	1743.3	1711.4	1678.7	1724.7	1696.4	1686.7
45°	4303.8	2355.3	1626.5	1639.8	1669.0	1693.7	1674.3	1634.5	1652.2	1529.2	1488.5
47.5°	4553.2	2411.9	1585.8	1569.0	1619.4	1666.3	1636.2	1576.1	1513.3	1391.3	1368.3
50°	4845.1	2499.5	1548.7	1499.2	1565.5	1629.2	1599.1	1513.3	1418.7	1359.4	1351.5
52.5°	5149.3	2606.5	1511.5	1422.2	1497.4	1600.9	1585.8	1499.2	1382.4	1324.0	1313.4
55°	5494.3	2714.4	1464.7	1332.9	1424.0	1587.6	1579.6	1447.9	1355.0	1322.3	1314.3
57.5°	5923.2	2837.3	1402.8	1240.0	1355.0	1539.8	1515.1	1416.9	1326.7	1301.9	1299.3
60°	6482.2	3018.7	1313.4	1141.0	1271.0	1466.4	1461.1	1371.8	1281.6	1263.9	1260.4
62.5°	7320.7	3318.5	1190.5	1041.9	1177.2	1341.7	1390.4	1310.8	1233.8	1232.9	1234.7
65°	8620.8	3769.6	1056.9	955.2	1082.6	1236.5	1308.1	1248.0	1185.2	1202.9	1205.5
67.5°	10127.9	4143.7	926.0	870.3	986.2	1136.5	1233.8	1185.2	1120.6	1166.6	1167.5
70°	10629.4	3809.4	811.0	786.3	886.2	1040.1	1153.3	1116.2	1050.7	1096.7	1092.3
72°	9891.8	3075.3	736.8	722.6	811.0	960.5	1081.7	1051.6	987.1	1018.0	1006.5
72.5°	9659.2	2932.0	718.2	706.7	790.7	940.2	1063.1	1035.7	971.1	997.7	987.1
75°	8616.4	2546.4	617.4	620.0	689.9	841.1	958.8	949.9	883.6	886.2	882.7
77.5°	6249.6	1867.1	520.1	537.8	587.3	739.4	853.5	848.2	775.7	762.4	759.8
80°	2900.1	952.6	423.7	431.6	482.9	618.2	727.9	720.8	662.5	645.7	635.9
82.5°	993.2	452.8	318.4	323.7	374.1	498.0	631.5	627.1	578.4	545.7	525.4
85°	354.7	225.5	222.9	217.6	267.1	391.8	550.1	526.3	454.6	387.4	385.6
87.5°	115.0	96.4	115.0	114.1	155.7	265.3	399.8	340.5	329.9	274.2	268.9
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)