

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: P319219

Luminaire Tested: **GAN-SA5D-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30602 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

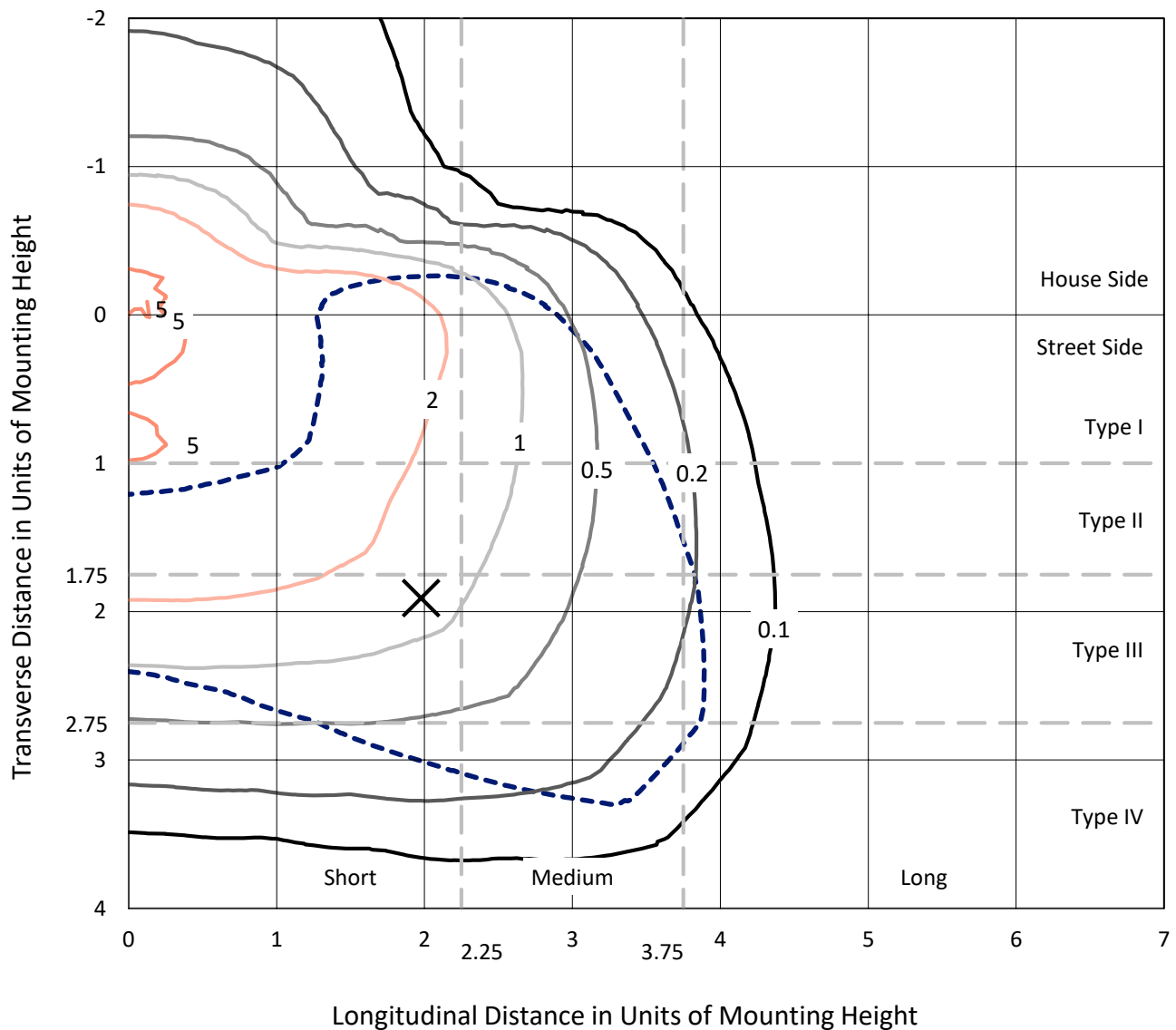
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

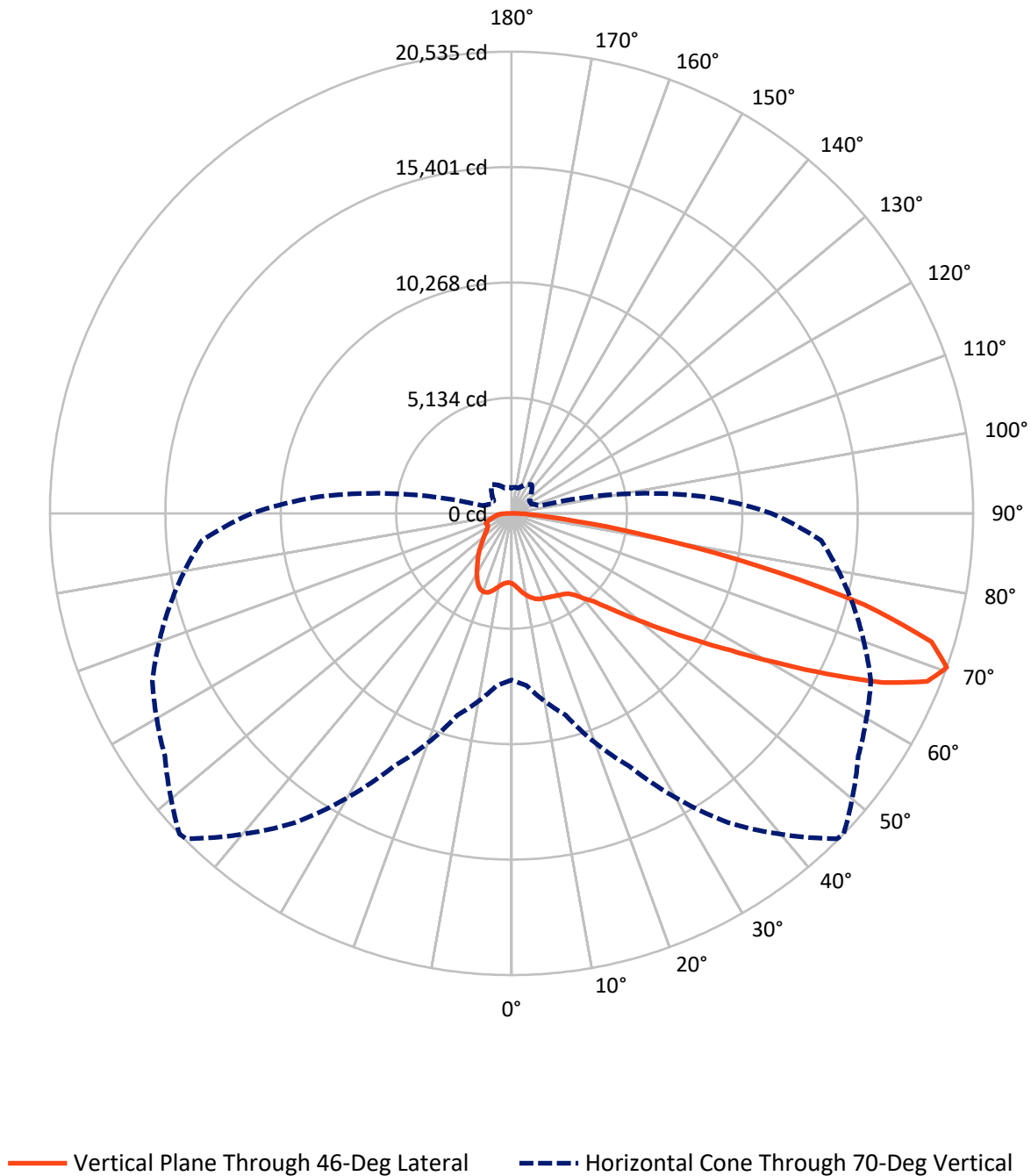
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	7013.9	0.0	7013.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	23588.1	0.0	23588.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	30602.0	0.0	30602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.8	1.0
10°-20°	1058.9	3.5
20°-30°	1765.6	5.8
30°-40°	2505.5	8.2
40°-50°	3685.5	12.0
50°-60°	6241.4	20.4
60°-70°	8859.5	29.0
70°-80°	5382.2	17.6
80°-90°	785.5	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°	30602.0	100.0
0°-180°	30602.0	100.0

Coefficient of Utilization



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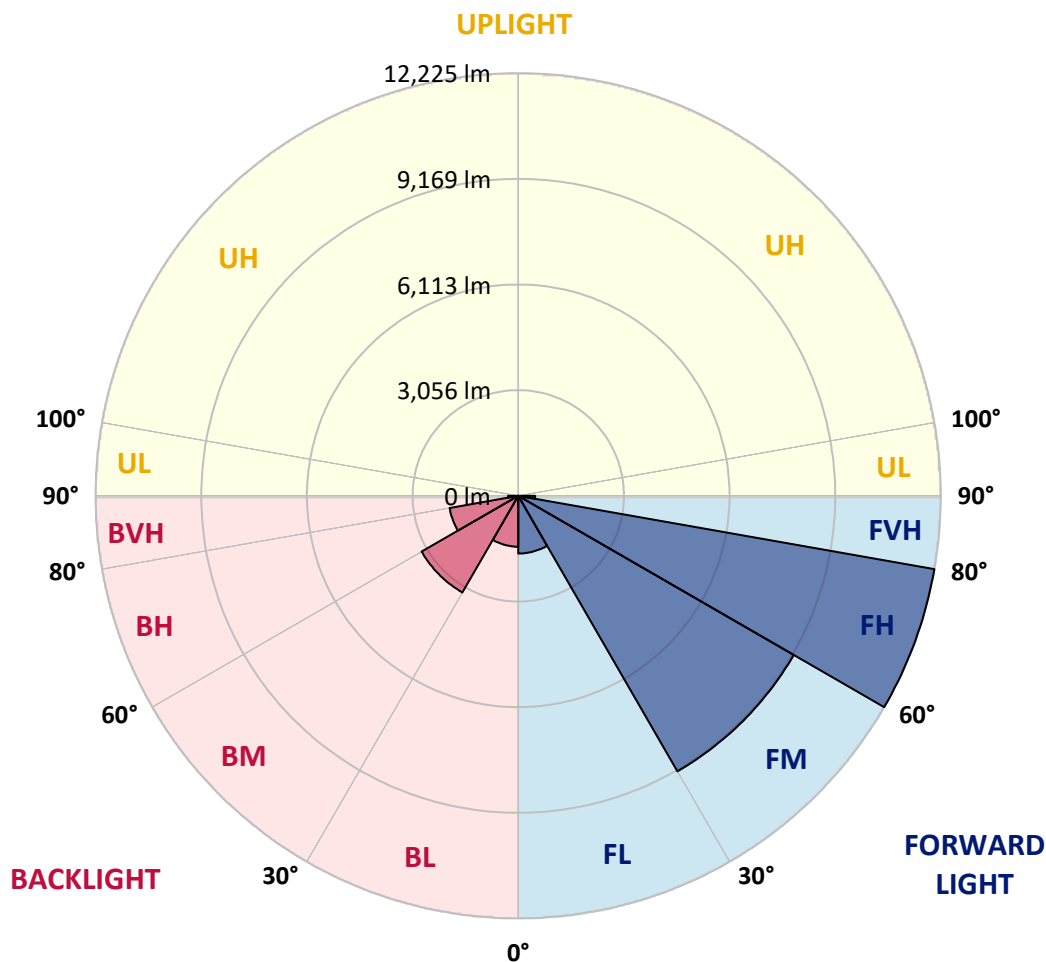
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1669.8	5.5			
FM	(30°-60°)	9203.7	30.1			
FH	(60°-80°)	12225.3	39.9			G5
FVH	(80°-90°)	489.3	1.6			G3/500
BL	(0°-30°)	1472.6	4.8	B3/2500		
BM	(30°-60°)	3228.7	10.6	B3/5000		
BH	(60°-80°)	2016.4	6.6	B3/2500		G3/2500
BVH	(80°-90°)	296.2	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7
2.5°	3273.8	3275.9	3280.1	3269.6	3240.3	3231.9	3228.8	3198.4	3178.5	3149.2	3124.0
5°	3535.6	3537.7	3531.4	3502.1	3437.2	3389.0	3384.8	3315.7	3252.8	3185.8	3135.5
7.5°	3808.9	3812.1	3792.2	3736.7	3645.6	3561.8	3556.6	3462.3	3367.0	3265.4	3190.0
10°	4050.9	4038.3	4005.8	3928.3	3820.5	3717.8	3713.6	3615.2	3505.2	3382.7	3282.2
12.5°	4212.1	4201.7	4159.8	4065.5	3947.2	3852.9	3844.6	3753.4	3646.6	3512.6	3392.1
15°	4301.2	4308.5	4251.9	4145.1	4029.9	3950.3	3943.0	3878.1	3782.8	3647.7	3509.4
17.5°	4312.7	4319.0	4264.5	4158.7	4064.5	4010.0	4006.9	3963.9	3894.8	3765.0	3620.4
20°	4245.7	4249.9	4204.8	4117.9	4056.1	4039.3	4038.3	4019.5	3968.1	3852.9	3712.6
22.5°	4148.3	4151.4	4118.9	4056.1	4035.2	4061.3	4068.7	4061.3	4024.7	3916.8	3784.9
25°	4124.2	4122.1	4088.6	4024.7	4042.5	4098.0	4107.4	4110.6	4085.4	3991.2	3877.0
27.5°	4240.4	4233.1	4169.2	4066.6	4078.1	4145.1	4157.7	4188.1	4172.4	4089.6	3981.7
30°	4576.6	4564.0	4433.1	4225.8	4169.2	4203.8	4219.5	4267.7	4270.8	4201.7	4121.0
32.5°	5144.2	5128.5	4893.9	4523.2	4323.2	4263.5	4278.1	4350.4	4389.1	4335.7	4248.8
35°	5861.6	5843.8	5535.9	5029.0	4580.8	4377.6	4388.1	4445.7	4523.2	4447.8	4332.6
37.5°	6609.4	6566.4	6270.0	5623.9	4990.3	4621.6	4621.6	4629.0	4665.6	4508.5	4431.0
40°	7352.9	7310.0	7041.9	6323.5	5520.2	5006.0	4981.9	4819.6	4790.2	4655.1	4629.0
42.5°	8044.1	8031.6	7873.4	7114.2	6142.3	5384.1	5350.5	5075.1	5081.4	4997.6	4998.7
45°	8779.3	8779.3	8650.5	7912.2	6867.0	5991.5	5958.0	5552.7	5615.5	5576.8	5670.0
47.5°	9379.4	9398.3	9380.5	8743.7	7710.1	6763.3	6702.6	6214.5	6390.5	6523.5	6794.7
50°	9992.1	10021.4	10024.5	9655.9	8729.1	7680.7	7611.6	7093.2	7485.9	7867.1	8400.2
52.5°	10881.2	10947.2	10684.3	10566.0	9977.4	8769.9	8701.8	8223.2	8878.8	9414.0	10332.4
55°	11705.4	11647.8	11460.4	11533.7	11313.7	10009.9	9958.6	9538.6	10430.9	11126.3	12319.1
57.5°	12151.6	12147.4	12335.9	12650.1	12754.8	11538.9	11496.0	11087.5	12180.9	12703.5	14184.3
60°	12675.2	12682.5	13149.6	13862.8	14294.3	13442.9	13424.0	13114.0	13880.6	14175.9	15647.4
62.5°	12748.5	12880.5	13684.8	14912.2	15735.3	15667.3	15709.2	14939.4	15401.3	15351.0	16739.7
65°	11905.4	12079.3	13535.0	15229.5	17168.0	18100.1	18138.8	16775.3	16600.4	16355.3	17130.3
67.5°	10177.4	10435.1	12016.5	14539.4	17640.3	19898.3	19952.7	18198.5	17595.3	16695.7	16189.9
70°	7406.3	7692.3	9284.1	12417.6	16798.3	20473.2	20535.0	18828.0	17633.0	15727.0	13820.9
72.5°	4474.0	4698.1	6010.3	9141.7	14178.0	19425.9	19535.9	18029.9	16098.7	13321.4	10205.7
75°	1964.7	2111.3	2906.2	5267.8	10150.2	16072.6	16209.8	15432.7	13080.5	9681.0	6032.3
77.5°	836.8	878.7	1191.8	2288.3	5738.0	10982.8	11171.3	11276.0	8874.6	5267.8	2549.1
80°	521.5	538.3	674.4	1035.8	2685.2	6168.5	6371.6	6634.5	4406.9	1936.4	890.2
82.5°	317.3	336.2	448.2	626.3	1398.1	2796.2	2893.6	3079.0	1710.2	836.8	460.8
85°	190.6	204.2	274.4	395.9	795.9	1099.6	1098.6	1214.8	805.4	538.3	243.0
87.5°	91.1	101.6	146.6	205.3	401.1	412.6	386.4	437.8	489.1	352.9	122.5
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°	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7
2.5°	3115.7	3111.5	3097.8	3087.4	3085.3	3079.0	3073.8	3076.9	3081.1	3082.1	3082.1
5°	3114.6	3103.1	3085.3	3077.9	3087.4	3099.9	3115.7	3136.6	3149.2	3158.6	3164.9
7.5°	3164.9	3142.9	3123.0	3118.8	3137.6	3171.2	3206.8	3250.7	3281.1	3302.1	3306.3
10°	3248.7	3221.4	3201.5	3205.7	3239.2	3287.4	3337.7	3394.2	3440.3	3468.6	3470.7
12.5°	3345.0	3318.8	3300.0	3317.8	3373.3	3431.9	3484.3	3533.5	3575.4	3603.7	3603.7
15°	3456.0	3437.2	3415.2	3456.0	3531.4	3583.8	3605.8	3629.9	3652.9	3673.8	3669.7
17.5°	3562.8	3545.0	3533.5	3581.7	3660.2	3684.3	3669.7	3651.9	3651.9	3663.4	3665.5
20°	3655.0	3639.3	3646.6	3693.7	3734.6	3709.5	3655.0	3598.4	3575.4	3581.7	3588.0
22.5°	3735.6	3728.3	3750.3	3772.3	3743.0	3655.0	3554.5	3478.0	3449.7	3447.6	3449.7
25°	3829.9	3828.8	3856.1	3816.3	3686.4	3524.1	3389.0	3314.6	3298.9	3311.5	3332.4
27.5°	3947.2	3958.7	3972.3	3826.8	3571.2	3326.2	3189.0	3137.6	3153.4	3183.7	3203.6
30°	4096.9	4128.4	4099.0	3800.6	3405.7	3099.9	2969.0	2954.4	2997.3	3040.2	3061.2
32.5°	4242.5	4291.7	4220.5	3732.5	3192.1	2860.1	2758.5	2754.3	2806.7	2848.6	2877.9
35°	4359.8	4457.2	4311.6	3597.4	2944.9	2639.1	2564.8	2536.5	2555.4	2604.6	2638.1
37.5°	4512.7	4675.0	4374.5	3391.1	2676.8	2456.9	2370.0	2305.1	2288.3	2308.2	2325.0
40°	4792.3	5007.0	4403.8	3103.1	2415.0	2274.7	2186.7	2091.4	2025.4	1977.3	1978.3
42.5°	5249.0	5439.6	4385.0	2753.3	2173.1	2096.6	1997.2	1887.2	1780.4	1671.5	1663.1
45°	5990.4	6082.6	4328.4	2382.6	1960.5	1910.2	1817.0	1707.1	1564.6	1441.1	1429.5
47.5°	7177.0	6972.8	4240.4	2058.9	1773.0	1752.1	1666.2	1539.5	1388.7	1289.2	1280.8
50°	8795.0	8257.8	4197.5	1801.3	1607.6	1613.9	1543.7	1409.6	1267.2	1193.9	1185.5
52.5°	10730.4	9754.3	4280.2	1602.3	1474.6	1496.6	1444.2	1318.5	1199.1	1141.5	1133.2
55°	12738.0	11304.3	4369.2	1457.8	1348.9	1391.8	1374.0	1270.3	1162.5	1109.1	1101.7
57.5°	14456.6	12461.6	4191.2	1340.5	1236.8	1303.9	1319.6	1240.0	1143.6	1095.5	1087.1
60°	15538.5	12927.6	3724.1	1230.6	1147.8	1233.7	1288.2	1231.6	1151.0	1146.8	1140.5
62.5°	16051.6	12886.7	3023.5	1143.6	1092.3	1203.3	1311.2	1278.7	1234.7	1272.4	1275.6
65°	15821.2	12270.9	2251.6	1086.0	1052.5	1214.8	1380.3	1367.7	1258.8	1296.5	1301.8
67.5°	14304.8	10801.6	1667.3	1035.8	1008.5	1247.3	1506.0	1397.1	1211.7	1238.9	1222.2
70°	11561.9	8563.6	1286.1	979.2	963.5	1243.1	1562.5	1379.3	1160.4	1166.7	1121.6
72.5°	7972.9	5839.6	1046.2	926.8	898.6	1133.2	1522.7	1335.3	1117.4	1069.3	1009.6
75°	4335.7	3134.5	889.1	872.4	784.4	994.9	1449.4	1303.9	1078.7	1014.8	981.3
77.5°	1706.0	1300.7	771.8	798.0	686.0	878.7	1367.7	1244.2	1025.3	941.5	924.7
80°	696.4	664.0	639.9	690.2	589.6	768.7	1269.3	1174.0	961.4	873.4	839.9
82.5°	394.8	412.6	497.5	544.6	478.6	708.0	1222.2	1117.4	884.9	782.3	742.5
85°	202.1	241.9	346.6	390.6	351.9	602.2	1125.8	978.2	710.1	599.0	602.2
87.5°	97.4	135.1	218.9	245.1	228.3	435.7	841.0	709.0	553.0	437.8	424.1
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)