

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: P320904

Luminaire Tested: **GAN-SA0D-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65890 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 640
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

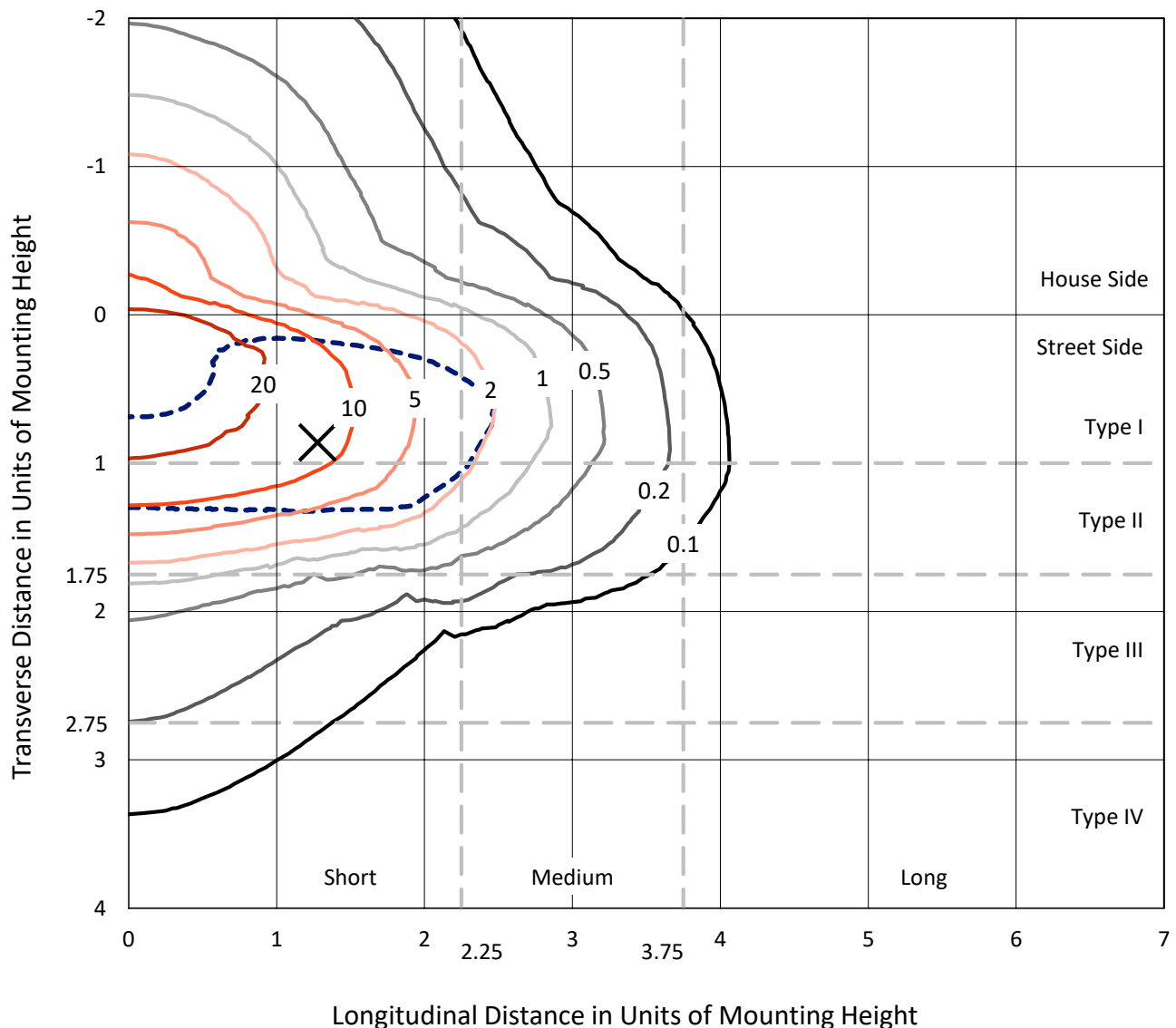


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Iso-Footcandle Lines of Horizontal Illumination

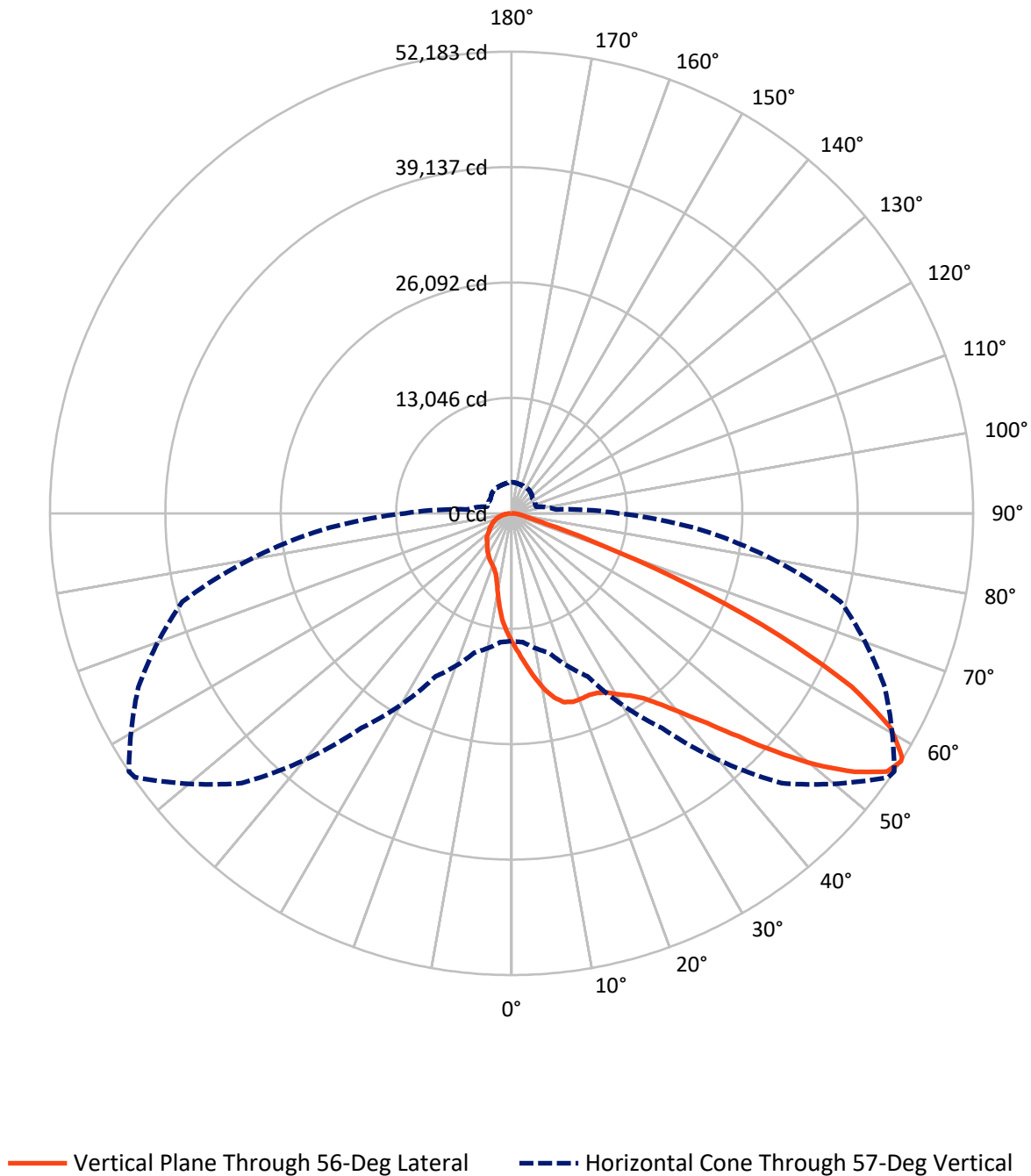
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11358.0	0.0	11358.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	54532.0	0.0	54532.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	65890.0	0.0	65890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1396.1	2.1
10°-20°	3946.9	6.0
20°-30°	6428.8	9.8
30°-40°	9610.4	14.6
40°-50°	14576.9	22.1
50°-60°	16338.1	24.8
60°-70°	9649.9	14.6
70°-80°	3161.7	4.8
80°-90°	781.1	1.2
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°	65890.0	100.0
0°-180°	65890.0	100.0

Coefficient of Utilization



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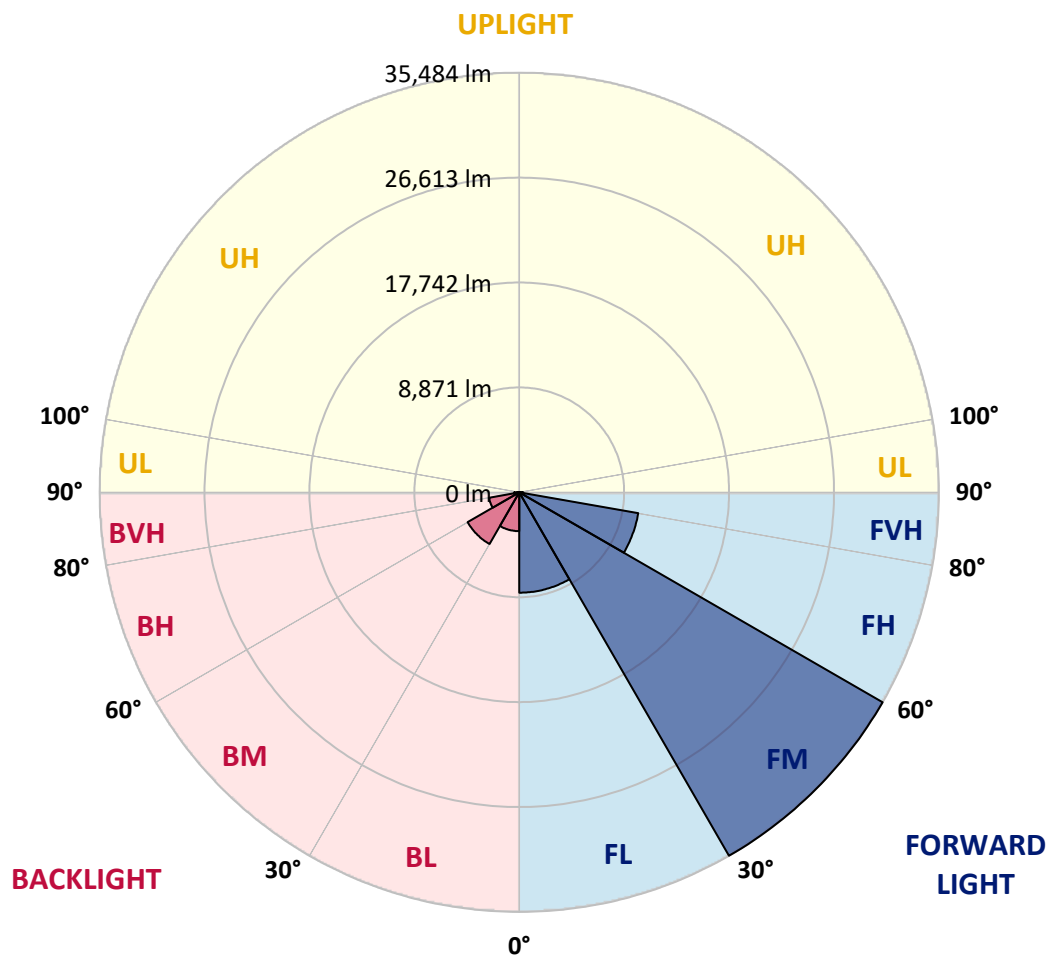
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8487.6	12.9			
FM	(30°-60°)	35483.9	53.9			
FH	(60°-80°)	10216.4	15.5			G4/12000
FVH	(80°-90°)	343.9	0.5			G3/500
BL	(0°-30°)	3284.2	5.0	B4/5000		
BM	(30°-60°)	5041.5	7.7	B4/8500		
BH	(60°-80°)	2595.2	3.9	B4/5000		G4/5000
BVH	(80°-90°)	437.2	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	14614.5	14614.5	14614.5	14614.5	14614.5	14614.5	14614.5	14614.5	14614.5	14614.5	14614.5
2.5°	16781.5	16935.5	16867.5	16632.0	16450.9	16195.0	15909.7	15823.7	15522.5	15185.1	14779.8
5°	19437.6	19360.7	19249.7	18882.9	18495.7	18045.0	17329.5	17216.3	16546.0	15782.9	14976.8
7.5°	20950.3	20943.5	20877.8	20662.7	20309.4	19720.7	18858.0	18724.4	17712.2	16484.9	15234.9
10°	20730.6	20714.8	20823.5	21047.6	21154.1	21031.8	20304.9	20171.3	18928.2	17261.5	15533.8
12.5°	19482.9	19492.0	19666.3	20137.3	20778.2	21548.1	21430.3	21364.6	20189.4	18140.1	15896.1
15°	18511.5	18531.9	18670.0	19079.9	19836.2	21233.3	22114.2	22136.8	21409.9	19109.3	16319.6
17.5°	18085.8	18128.8	18192.2	18479.8	19172.7	20606.1	22277.2	22399.5	22478.7	20114.7	16727.2
20°	18221.7	18262.4	18280.5	18463.9	19032.3	20225.7	22164.0	22383.6	23298.5	21061.2	17134.7
22.5°	18830.8	18855.7	18867.0	18914.6	19356.1	20334.3	22089.3	22320.2	23891.7	21910.4	17442.7
25°	19840.7	19822.6	19750.1	19689.0	19985.6	20764.6	22261.4	22481.0	24374.0	22680.3	17644.2
27.5°	21049.9	21027.3	20886.9	20719.3	20889.1	21434.8	22757.3	22931.6	24806.5	23400.3	17746.1
30°	22501.4	22442.5	22177.6	21978.3	22044.0	22440.2	23574.7	23733.2	25474.5	24217.8	17845.8
32.5°	24179.3	24115.9	23733.2	23402.6	23402.6	23733.2	24417.1	24548.4	26040.6	25141.7	18006.5
35°	26280.7	26201.4	25703.2	25148.5	24992.2	25159.8	25565.1	25658.0	27059.6	26305.6	18298.6
37.5°	28757.9	28651.5	28006.1	27263.4	26921.5	26912.4	27204.5	27394.8	28687.7	27834.1	18794.6
40°	31242.0	31167.3	30603.4	30019.2	29348.9	29133.8	29584.4	29643.3	30816.3	29731.6	19428.6
42.5°	33162.2	33148.6	33044.4	33121.4	32435.3	32000.6	32353.8	32401.4	33415.8	31785.4	20103.4
45°	34176.6	34199.3	34704.3	35822.9	36076.5	35759.5	35933.8	35947.4	36386.7	33857.4	20721.6
47.5°	33363.7	33481.5	34758.6	37260.8	39337.2	40390.2	40100.3	40267.9	39267.0	35637.2	21206.1
50°	30195.8	30340.7	32514.6	36619.9	40858.9	44871.4	44719.7	44681.2	41590.3	36941.5	21468.8
52.5°	26271.6	26384.8	28178.2	33289.0	39742.6	47348.7	48741.3	48542.0	43655.4	37917.4	21518.6
55°	20295.9	20472.5	22191.2	26640.7	35227.3	46402.2	51698.6	51519.7	45537.2	38429.2	21459.8
57°	14428.8	14614.5	16321.8	20332.1	29634.3	43125.6	51993.0	52183.2	46553.9	38515.2	21525.4
57.5°	12875.4	13065.6	14757.1	18651.9	27890.7	41941.3	51739.4	52056.4	46737.3	38501.7	21561.7
60°	6483.0	6555.4	7633.3	10411.7	17630.6	33907.2	48431.1	49248.5	46902.6	37835.9	21717.9
62.5°	4030.6	3978.6	3944.6	4796.0	8577.6	22485.5	41603.9	43177.7	43739.2	36223.7	21339.7
65°	3543.8	3446.4	3072.8	3004.9	3788.3	10921.2	31330.3	33289.0	36980.0	33683.0	20438.5
67.5°	3328.7	3233.6	2812.4	2558.8	2561.0	4329.5	19451.2	21656.8	28807.7	29387.4	18312.2
70°	3106.8	3020.7	2626.7	2327.8	2180.6	2398.0	8948.9	10622.3	18778.7	23099.2	15305.1
72.5°	2821.4	2762.6	2388.9	2081.0	1924.7	1795.7	3426.0	4046.5	10871.4	15513.4	10629.1
75°	2522.5	2468.2	2148.9	1854.5	1664.3	1413.0	1929.3	2078.7	5522.9	7936.7	5233.0
77.5°	2194.2	2162.5	1911.2	1639.4	1487.7	1170.7	1365.4	1437.9	2368.6	3403.4	2624.4
80°	1745.9	1807.0	1671.1	1460.5	1320.1	937.5	966.9	1014.5	1379.0	1662.1	1490.0
82.5°	1136.7	1243.2	1308.8	1186.5	1086.9	738.2	695.2	715.6	899.0	1014.5	647.6
85°	473.3	532.1	860.5	776.7	722.3	538.9	466.5	475.5	557.0	577.4	264.9
87.5°	210.6	224.2	378.2	355.5	305.7	185.7	199.3	217.4	296.6	280.8	101.9
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°	14614.5	14614.5	14614.5	14614.5	14614.5	14614.5	14614.5	14614.5	14614.5	14614.5	14614.5
2.5°	14628.0	14437.8	14111.8	13751.7	13457.4	13221.9	12984.1	12821.1	12630.8	12528.9	12476.9
5°	14639.4	14265.7	13579.6	12875.4	12245.9	11670.7	11122.8	10701.6	10307.6	10094.7	10035.8
7.5°	14686.9	14125.4	13015.8	11856.4	10737.8	9716.6	8928.5	8434.9	8079.4	7920.9	7875.6
10°	14725.4	13960.0	12318.4	10601.9	9080.3	8045.4	7434.0	7157.8	7035.5	7015.1	6994.7
12.5°	14816.0	13790.2	11584.7	9293.1	7791.8	7076.3	6863.4	6845.3	6879.3	6929.1	6929.1
15°	14958.7	13622.7	10746.9	8170.0	6972.1	6720.8	6763.8	6863.4	6956.2	7033.2	7044.6
17.5°	15062.8	13416.6	9845.6	7271.0	6535.1	6603.0	6757.0	6897.4	6992.5	7067.2	7074.0
20°	15137.5	13097.3	8883.3	6584.9	6283.7	6494.3	6686.8	6811.3	6877.0	6951.7	6963.0
22.5°	15099.0	12669.3	8029.6	6093.5	6079.9	6335.8	6519.2	6668.7	6618.9	6546.4	6593.9
25°	14913.4	12080.6	7151.0	5726.7	5864.8	6122.9	6349.4	6249.8	6082.2	6050.5	6068.6
27.5°	14582.8	11328.8	6338.1	5387.0	5615.7	5925.9	5912.4	5812.7	5753.8	5713.1	5738.0
30°	14227.2	10513.6	5627.0	5090.4	5339.5	5595.3	5543.3	5541.0	5482.1	5416.5	5448.2
32.5°	13876.3	9693.9	5063.2	4845.8	5131.1	5165.1	5278.3	5312.3	5196.8	5058.7	5049.6
35°	13570.6	8919.5	4635.2	4623.9	4879.8	4884.3	5049.6	5002.1	4714.5	4571.8	4571.8
37.5°	13341.9	8147.3	4309.2	4424.6	4549.2	4666.9	4750.7	4553.7	4506.2	4426.9	4424.6
40°	13242.2	7468.0	4105.4	4272.9	4316.0	4465.4	4250.3	4327.3	4349.9	4309.2	4309.2
42.5°	13138.1	6877.0	3928.7	4157.4	4150.7	4130.3	4021.6	4121.2	4211.8	4214.1	4207.3
45°	13033.9	6367.5	3772.5	3910.6	4005.7	3786.1	3806.5	3912.9	4039.7	4085.0	4085.0
47.5°	12918.4	5964.4	3629.8	3650.2	3797.4	3650.2	3634.4	3715.9	3865.3	3937.8	3953.6
50°	12664.8	5602.1	3466.8	3421.5	3462.3	3512.1	3525.7	3564.2	3729.5	3845.0	3872.1
52.5°	12313.8	5278.3	3258.5	3210.9	3210.9	3398.9	3462.3	3473.6	3614.0	3752.1	3779.3
55°	12021.7	5072.3	3043.4	3034.3	3025.2	3278.9	3387.5	3405.7	3503.0	3611.7	3625.3
57°	12042.1	5056.4	2878.1	2887.1	2884.9	3156.6	3317.4	3355.8	3405.7	3498.5	3514.4
57.5°	12053.4	5067.7	2841.8	2846.4	2844.1	3122.6	3297.0	3340.0	3378.5	3475.9	3491.7
60°	12223.3	5097.2	2694.6	2644.8	2656.1	2941.5	3181.5	3235.8	3260.7	3389.8	3410.2
62.5°	11971.9	4965.8	2576.9	2456.9	2456.9	2751.3	3020.7	3106.8	3145.3	3319.6	3353.6
65°	11242.8	4596.7	2438.8	2244.0	2266.7	2561.0	2828.2	2968.6	3027.5	3244.9	3281.1
67.5°	10117.4	4168.8	2291.6	2053.8	2076.5	2361.8	2629.0	2780.7	2873.5	3163.4	3192.8
70°	8652.3	3645.7	2092.3	1852.3	1879.5	2144.4	2393.5	2565.6	2703.7	3086.4	3095.4
72.5°	6378.8	2989.0	1813.8	1630.4	1659.8	1890.8	2155.7	2355.0	2540.7	2893.9	2889.4
75°	3792.9	2336.9	1505.8	1406.2	1426.6	1641.7	1940.6	2182.9	2461.4	2819.2	2862.2
77.5°	2300.6	1759.4	1227.3	1177.5	1202.4	1422.0	1786.6	2044.8	2427.4	2658.4	2644.8
80°	1390.3	1256.7	980.5	948.8	973.7	1216.0	1653.0	1940.6	2121.7	2271.2	2271.2
82.5°	726.9	767.6	720.1	695.2	729.1	987.3	1503.6	1693.8	1874.9	1610.0	1503.6
85°	296.6	400.8	437.0	434.8	455.1	683.8	1297.5	1449.2	1209.2	1148.1	1175.2
87.5°	99.6	169.8	212.9	183.4	192.5	430.2	899.0	699.7	831.0	579.7	550.3
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)