

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: P318544

Luminaire Tested: **GAN-SA0D-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56470 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

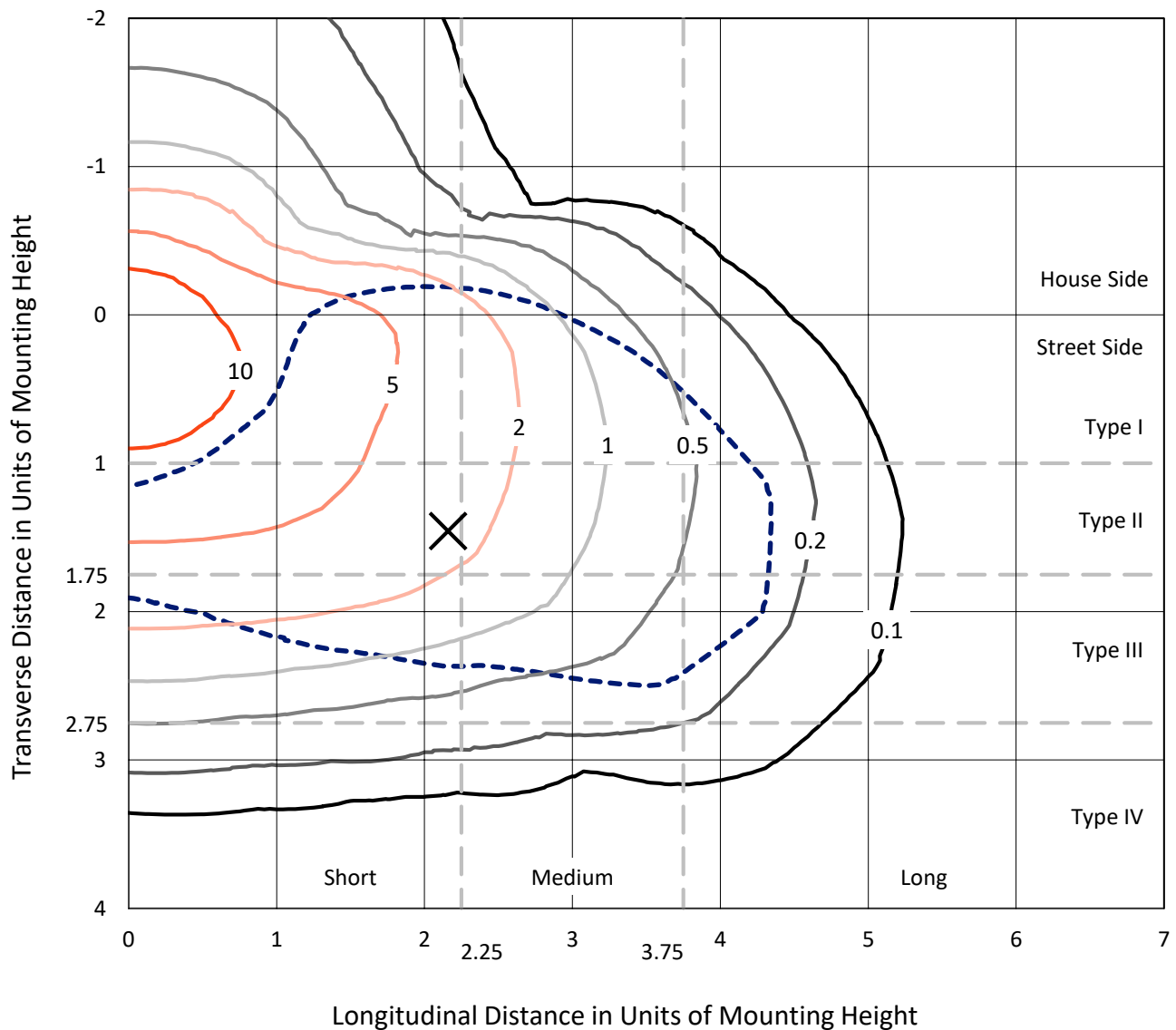


REPORT NUMBER: P318544

CATALOG NUMBER: GAN-SA0D-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

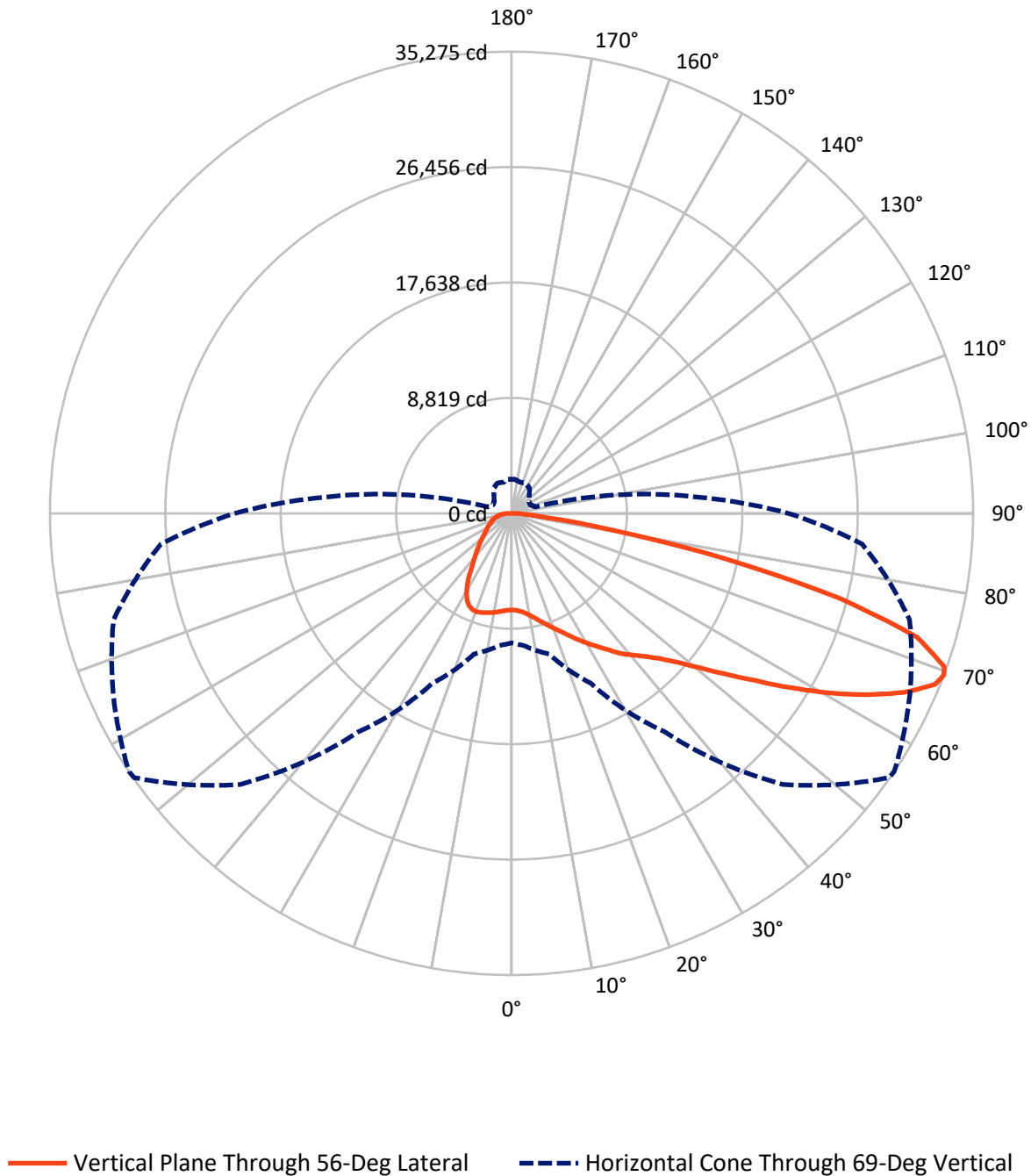
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Short - N/A

REPORT NUMBER: P318544
CATALOG NUMBER: GAN-SA0D-827-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P318544

CATALOG NUMBER: GAN-SA0D-827-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12575.8	0.0	12575.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	43894.2	0.0	43894.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	56470.0	0.0	56470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.1	1.3
10°-20°	2331.6	4.1
20°-30°	4070.1	7.2
30°-40°	5846.5	10.4
40°-50°	8091.3	14.3
50°-60°	11854.8	21.0
60°-70°	14453.2	25.6
70°-80°	7990.7	14.2
80°-90°	1106.7	2.0
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°	56470.0	100.0
0°-180°	56470.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318544

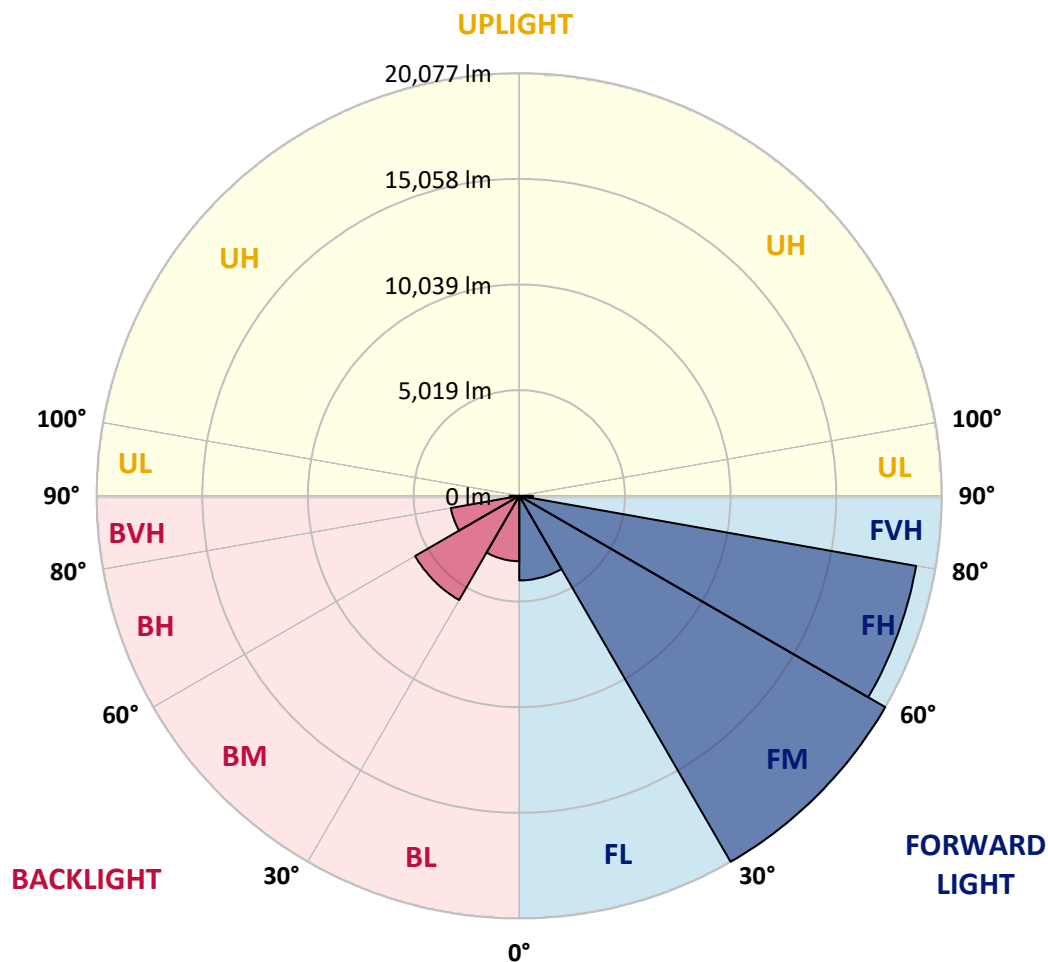
CATALOG NUMBER: GAN-SA0D-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4019.0	7.1			
FM	(30°-60°)	20077.2	35.6			
FH	(60°-80°)	19146.2	33.9			G5
FVH	(80°-90°)	651.9	1.2			G4/750
BL	(0°-30°)	3107.8	5.5	B4/5000		
BM	(30°-60°)	5715.4	10.1	B4/8500		
BH	(60°-80°)	3297.8	5.8	B4/5000		G4/5000
BVH	(80°-90°)	454.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





REPORT NUMBER: P318544

CATALOG NUMBER: GAN-SA0D-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7382.6	7382.6	7382.6	7382.6	7382.6	7382.6	7382.6	7382.6	7382.6	7382.6	7382.6
2.5°	7429.3	7437.1	7431.2	7446.8	7429.3	7441.0	7431.2	7431.2	7425.4	7407.9	7388.4
5°	7546.0	7561.6	7551.8	7567.4	7546.0	7549.9	7532.4	7532.4	7514.9	7477.9	7439.0
7.5°	7728.9	7746.4	7738.6	7754.2	7725.0	7725.0	7701.6	7699.7	7664.7	7604.4	7559.6
10°	7946.8	7970.1	7962.3	7985.7	7962.3	7970.1	7946.8	7946.8	7900.1	7814.5	7758.1
12.5°	8263.8	8293.0	8271.6	8269.7	8260.0	8275.5	8256.1	8252.2	8209.4	8092.7	8014.8
15°	8687.9	8719.1	8674.3	8670.4	8616.0	8610.1	8610.1	8604.3	8577.0	8437.0	8308.6
17.5°	9176.2	9185.9	9147.0	9084.8	9014.8	8970.0	8964.2	8979.7	8979.7	8816.3	8612.1
20°	9654.8	9672.3	9641.2	9571.1	9481.6	9415.5	9368.8	9399.9	9398.0	9203.4	8913.6
22.5°	10176.1	10217.0	10170.3	10080.8	9975.8	9901.8	9820.1	9847.4	9849.3	9610.0	9209.3
25°	10851.2	10814.2	10785.0	10658.6	10508.8	10432.9	10357.0	10384.3	10376.5	10047.7	9514.7
27.5°	11448.4	11456.2	11417.3	11283.0	11109.9	10942.6	10938.7	10956.2	10927.0	10502.9	9802.6
30°	12142.9	12146.8	12092.3	11971.7	11783.0	11567.0	11516.5	11545.7	11483.4	10934.8	10106.1
32.5°	12833.5	12852.9	12792.6	12646.7	12495.0	12232.4	12131.2	12150.7	11995.0	11376.4	10419.3
35°	13438.5	13465.7	13446.3	13349.0	13183.6	12958.0	12837.4	12825.7	12633.1	11917.2	10833.7
37.5°	14055.2	14080.4	14059.0	13977.3	13911.2	13671.9	13607.7	13607.7	13273.1	12469.7	11360.8
40°	14689.3	14728.2	14703.0	14590.1	14533.7	14424.8	14271.1	14234.1	13872.3	13133.1	12220.7
42.5°	15278.8	15329.4	15430.5	15364.4	15249.6	15265.2	14955.8	14936.4	14671.8	14113.5	13300.4
45°	16115.3	16189.2	16360.4	16309.8	16286.5	16200.9	15833.2	15815.7	15714.5	15432.5	14640.7
47.5°	17027.6	17128.8	17438.1	17447.8	17698.8	17537.3	17037.4	16977.1	17000.4	17012.1	16276.7
50°	17868.0	17978.9	18486.7	18725.9	19317.3	19352.3	18552.8	18498.3	18589.8	18858.2	18183.2
52.5°	18539.2	18679.2	19313.4	20052.7	21066.2	21354.1	20418.4	20377.5	20445.6	20908.6	20338.6
55°	19031.4	19183.1	19873.7	21219.9	22838.4	23346.1	22566.1	22527.2	22569.9	23159.4	22682.8
57.5°	19146.1	19183.1	20184.9	22005.8	24334.4	25554.1	25194.2	25116.4	24906.3	25419.9	25270.1
60°	18607.3	18755.1	19928.2	22282.0	25491.9	27731.0	27941.1	27843.8	27254.4	27674.5	27553.9
62.5°	17514.0	17778.6	18969.1	21861.8	25945.1	29509.0	30635.4	30518.6	29503.2	29775.5	29195.8
65°	15728.2	15841.0	17091.8	20412.6	25369.3	30647.0	33037.9	32979.5	31701.4	31275.4	29499.3
67.5°	12533.9	12745.9	13808.1	17383.6	23013.5	30512.8	34895.7	34889.8	33137.1	31831.8	28423.5
69°	9901.8	10121.7	11133.2	14319.7	20363.9	29285.3	35206.9	35275.0	33541.7	31493.3	26886.7
70°	7894.2	8149.1	8843.6	12061.2	18012.0	27666.8	34948.2	35070.8	33463.9	30935.0	25468.5
72.5°	3359.6	3565.8	4059.9	6217.3	10977.6	20659.6	31954.3	32417.3	31660.6	28312.6	21048.7
75°	1466.8	1531.0	1754.7	2534.8	4873.1	11244.1	25032.8	25888.7	27071.5	23931.7	15679.5
77.5°	1073.8	1101.1	1223.6	1488.2	2186.6	4246.7	16097.8	16595.8	19523.5	17414.8	9617.8
80°	830.7	850.1	945.4	1093.3	1427.9	1717.7	7341.8	7769.7	10977.6	8944.7	4005.5
82.5°	661.4	675.0	741.2	805.4	986.3	1040.8	2437.5	2704.0	4052.2	2470.6	1060.2
85°	614.7	630.3	653.6	587.5	632.2	610.8	1054.4	1103.0	1223.6	970.7	443.5
87.5°	278.2	328.8	647.8	457.2	336.5	268.5	431.9	451.3	507.7	509.7	196.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P318544

CATALOG NUMBER: GAN-SA0D-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7382.6	7382.6	7382.6	7382.6	7382.6	7382.6	7382.6	7382.6	7382.6	7382.6	7382.6
2.5°	7400.1	7394.3	7404.0	7380.7	7409.8	7407.9	7398.2	7402.1	7421.5	7419.6	7421.5
5°	7444.9	7441.0	7452.6	7435.1	7470.1	7481.8	7483.8	7501.3	7522.7	7528.5	7528.5
7.5°	7557.7	7557.7	7563.5	7540.2	7563.5	7561.6	7551.8	7569.4	7590.8	7592.7	7590.8
10°	7752.2	7754.2	7744.4	7684.1	7664.7	7612.2	7563.5	7565.5	7592.7	7614.1	7619.9
12.5°	7997.3	7989.6	7946.8	7835.9	7754.2	7647.2	7596.6	7594.6	7621.9	7639.4	7645.2
15°	8277.5	8256.1	8145.2	7964.3	7820.3	7715.3	7633.6	7614.1	7598.5	7579.1	7581.0
17.5°	8542.0	8493.4	8308.6	8057.6	7905.9	7765.8	7608.3	7481.8	7394.3	7343.7	7328.1
20°	8810.5	8715.2	8448.7	8145.2	7952.6	7697.7	7394.3	7137.5	6978.0	6904.0	6890.4
22.5°	9055.6	8901.9	8579.0	8236.6	7915.6	7468.2	6991.6	6618.1	6396.3	6297.1	6304.9
25°	9294.9	9080.9	8715.2	8300.8	7728.9	7063.6	6431.3	5972.2	5715.4	5604.6	5600.7
27.5°	9505.0	9261.8	8863.0	8248.3	7380.7	6487.7	5768.0	5320.5	5106.5	5011.2	4995.7
30°	9746.2	9489.4	9059.5	8047.9	6871.0	5822.4	5120.2	4805.0	4653.3	4558.0	4540.4
32.5°	10040.0	9798.7	9221.0	7684.1	6219.3	5127.9	4614.4	4394.5	4256.4	4149.4	4130.0
35°	10467.9	10207.3	9261.8	7162.8	5503.4	4579.4	4242.8	4017.1	3830.4	3692.3	3678.7
37.5°	11004.8	10718.9	9168.4	6487.7	4808.9	4223.4	3933.5	3655.3	3412.1	3217.6	3186.5
40°	11779.1	11347.2	8909.7	5709.6	4297.3	3949.1	3632.0	3314.9	3013.3	2785.7	2741.0
42.5°	12709.0	12084.5	8512.9	4935.4	3921.8	3670.9	3332.4	2939.4	2651.5	2490.0	2466.7
45°	13891.7	12851.0	7962.3	4258.4	3552.2	3392.7	3009.5	2647.6	2468.6	2350.0	2330.5
47.5°	15241.8	13710.8	7384.5	3707.8	3239.0	3132.0	2750.7	2517.3	2375.3	2281.9	2264.4
50°	16901.2	14681.6	6771.8	3256.5	2923.9	2818.8	2628.2	2445.3	2332.5	2260.5	2243.0
52.5°	18772.6	15776.8	6330.2	2900.5	2663.2	2587.3	2564.0	2406.4	2315.0	2260.5	2243.0
55°	20788.0	16891.5	5853.6	2600.9	2437.5	2458.9	2521.2	2410.3	2348.0	2281.9	2256.6
57.5°	22805.3	18043.1	5322.5	2348.0	2258.6	2363.6	2492.0	2418.1	2365.5	2301.3	2278.0
60°	24400.5	18772.6	4499.6	2136.0	2116.5	2258.6	2422.0	2359.7	2291.6	2293.6	2289.7
62.5°	25145.6	18733.7	3591.1	1947.3	1974.5	2116.5	2309.1	2268.3	2211.9	2287.7	2293.6
65°	24727.3	17800.0	2795.5	1776.1	1822.8	1968.7	2192.4	2223.5	2243.0	2388.9	2408.3
67.5°	22972.6	15983.0	2165.2	1626.3	1684.7	1867.5	2204.1	2422.0	2447.3	2600.9	2599.0
69°	21157.6	14278.9	1881.2	1548.5	1616.6	1892.8	2355.8	2548.4	2453.1	2616.5	2593.2
70°	19636.4	12930.7	1729.4	1496.0	1585.5	1937.6	2457.0	2546.5	2423.9	2564.0	2525.1
72.5°	15123.1	9302.7	1466.8	1398.7	1480.4	1853.9	2486.2	2490.0	2355.8	2383.1	2316.9
75°	10372.6	5878.8	1280.0	1266.4	1320.9	1671.1	2392.8	2379.2	2178.8	2139.9	2085.4
77.5°	5719.3	2986.1	1087.5	1140.0	1176.9	1480.4	2174.9	2155.4	1990.1	1908.4	1888.9
80°	2206.0	1307.3	918.2	1013.5	1036.9	1282.0	1906.4	1888.9	1750.8	1645.8	1616.6
82.5°	832.6	684.8	758.7	877.4	869.6	1058.3	1614.6	1604.9	1470.7	1317.0	1270.3
85°	385.2	410.5	601.1	723.7	667.3	784.0	1291.7	1309.2	1145.8	962.9	962.9
87.5°	163.4	229.6	426.0	546.6	449.4	529.1	947.4	904.6	830.7	575.8	540.8
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)