

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: P319443

Luminaire Tested: **GAN-SA9B-760-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-760-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50047 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

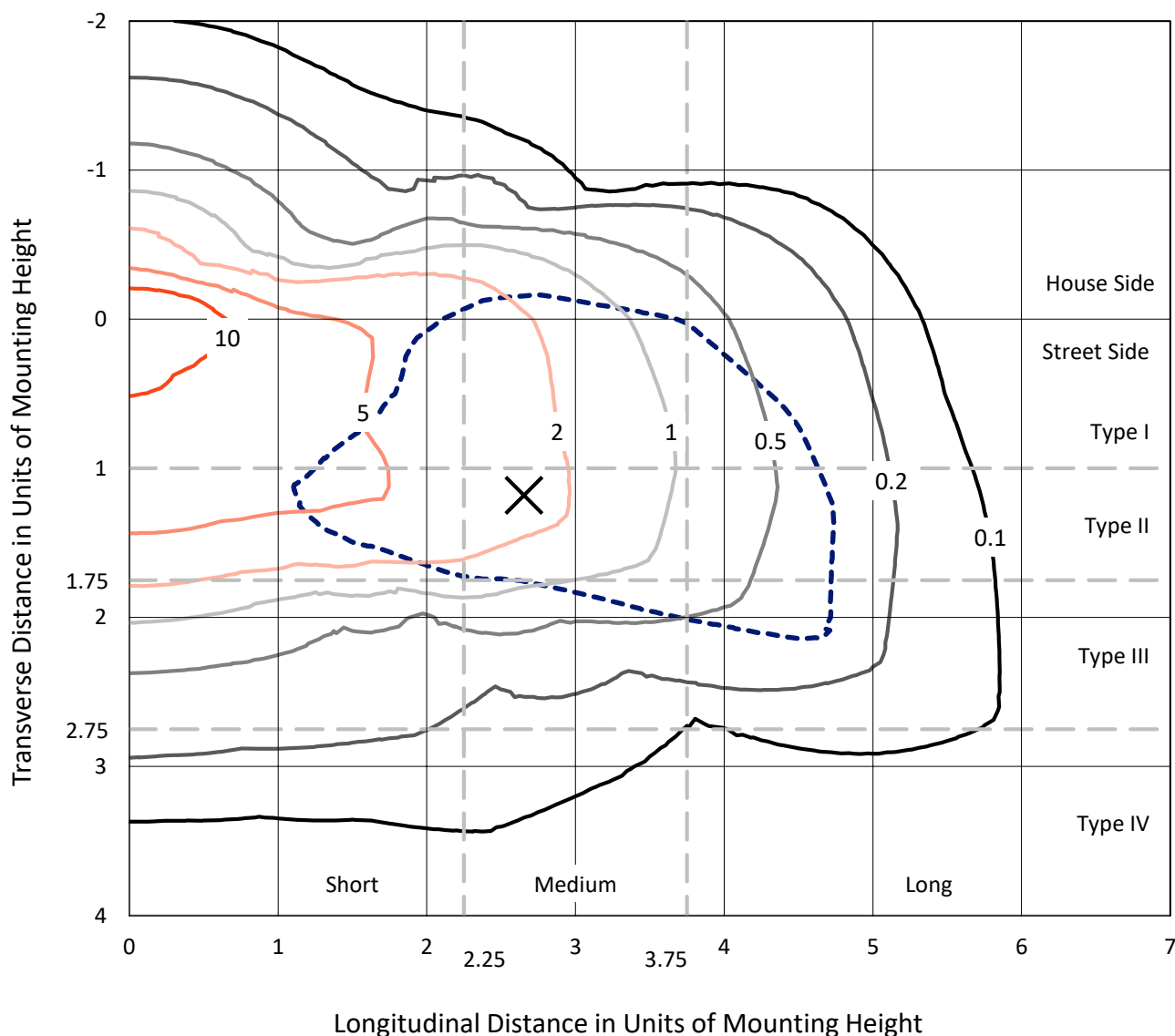
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

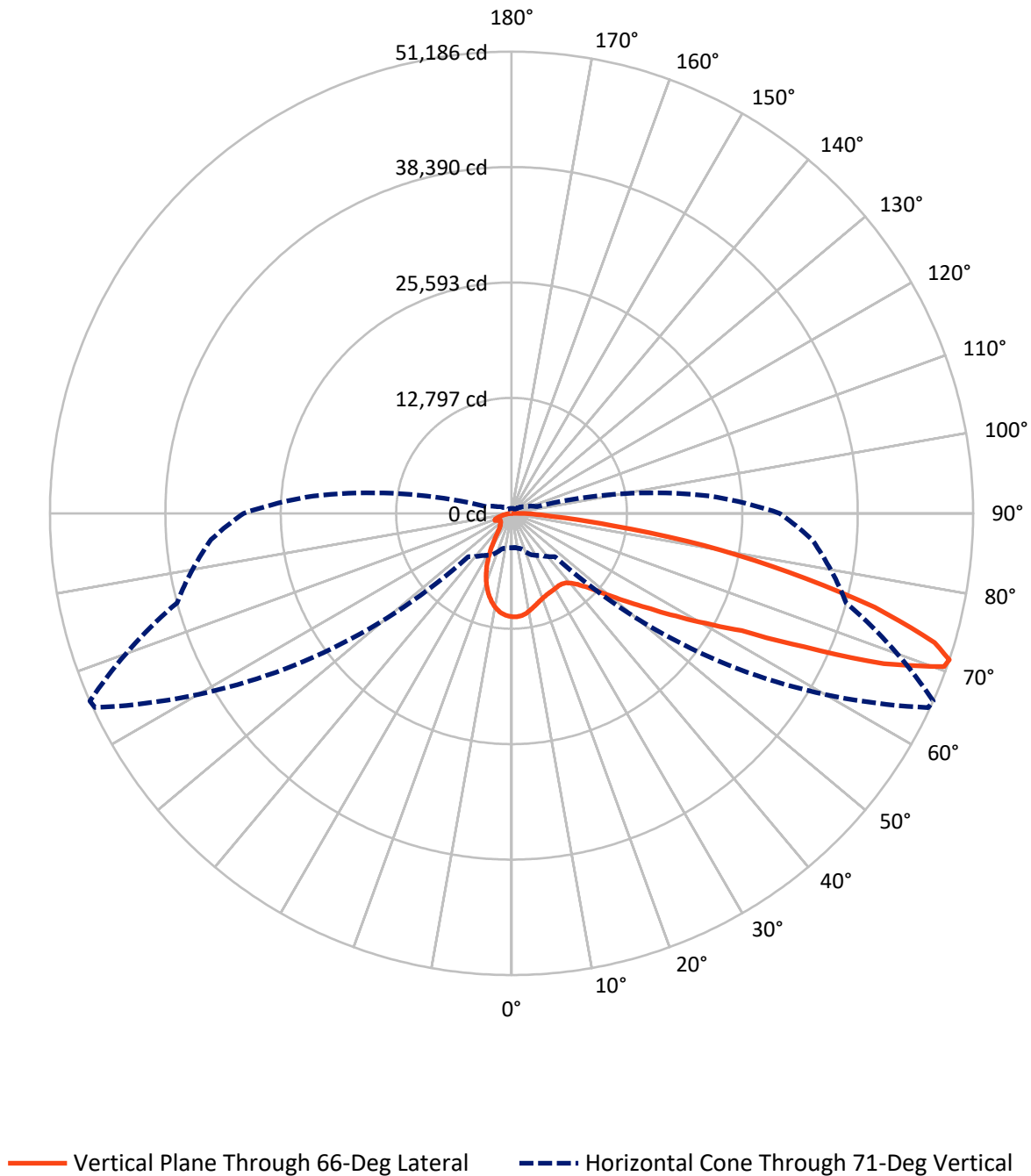
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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	9275.1	0.0	9275.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	40771.9	0.0	40771.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	50047.0	0.0	50047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1009.2	2.0
10°-20°	2420.4	4.8
20°-30°	3251.3	6.5
30°-40°	4277.0	8.5
40°-50°	6221.9	12.4
50°-60°	9719.2	19.4
60°-70°	12174.9	24.3
70°-80°	9286.7	18.6
80°-90°	1686.4	3.4
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°	50047.0	100.0
0°-180°	50047.0	100.0

Coefficient of Utilization



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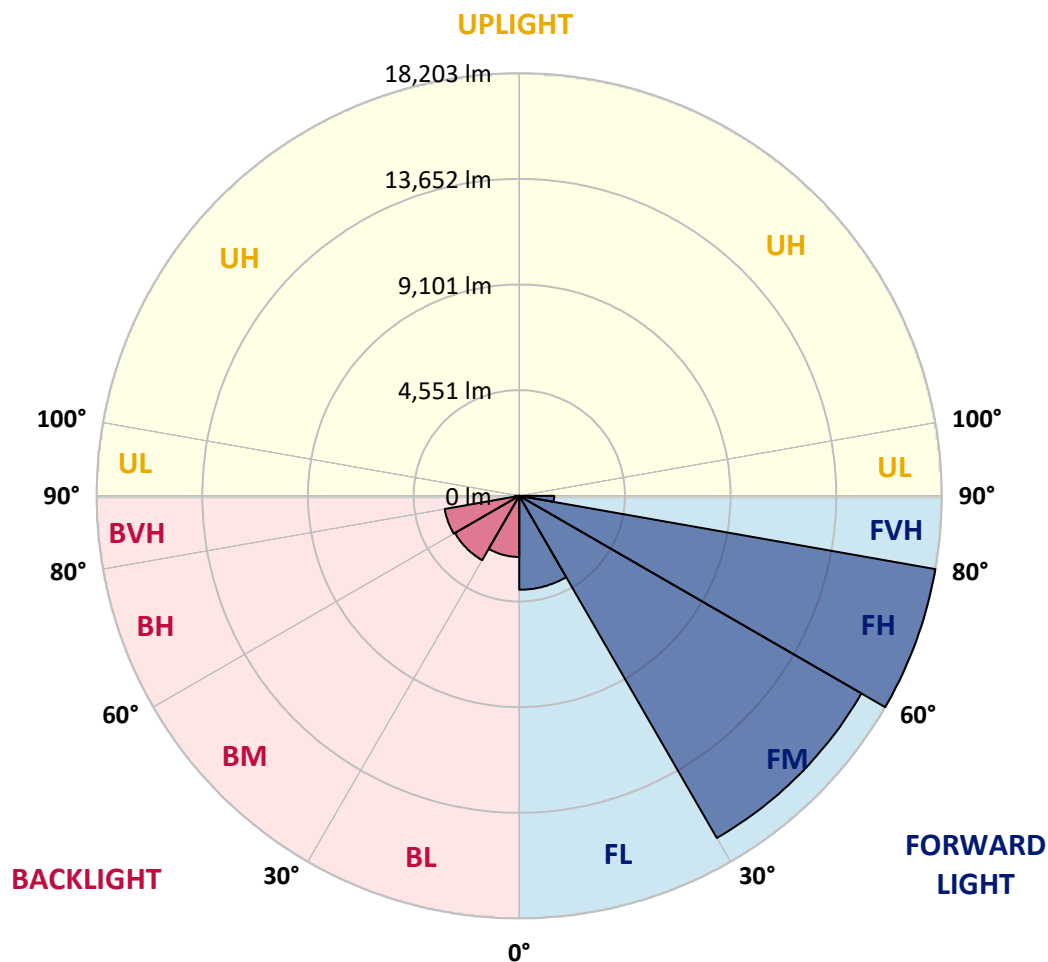
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4047.0	8.1			
FM	(30°-60°)	17018.5	34.0			
FH	(60°-80°)	18202.6	36.4			G5
FVH	(80°-90°)	1503.8	3.0			G5
BL	(0°-30°)	2633.9	5.3	B4/5000		
BM	(30°-60°)	3199.6	6.4	B3/5000		
BH	(60°-80°)	3259.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	182.6	0.4			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8
2.5°	11252.3	11235.0	11286.8	11340.4	11361.1	11395.7	11447.5	11476.9	11475.2	11480.4	11463.1
5°	10505.8	10483.3	10587.0	10671.7	10834.1	11017.3	11240.2	11399.1	11402.6	11492.4	11516.6
7.5°	9799.1	9783.5	9902.8	10039.3	10227.6	10507.5	10868.7	11210.8	11231.5	11475.2	11559.8
10°	9232.3	9228.9	9344.6	9493.2	9712.7	10025.4	10440.1	10941.2	10972.3	11392.2	11566.7
12.5°	8790.0	8796.9	8897.1	9066.4	9298.0	9624.6	10073.8	10638.8	10689.0	11260.9	11527.0
15°	8463.4	8491.0	8572.2	8743.3	8971.4	9303.2	9764.5	10358.9	10435.0	11114.0	11504.5
17.5°	8276.8	8307.9	8364.9	8506.6	8720.8	9040.5	9477.7	10129.1	10198.2	11001.7	11506.3
20°	8221.5	8247.4	8280.2	8366.6	8548.1	8838.3	9251.3	9921.8	9996.1	10911.9	11523.5
22.5°	8330.3	8349.3	8352.8	8345.9	8456.5	8693.2	9087.2	9769.7	9849.2	10853.1	11535.6
25°	8563.6	8589.5	8570.5	8506.6	8470.3	8615.4	9002.5	9669.5	9749.0	10809.9	11511.5
27.5°	8914.4	8917.8	8902.3	8819.3	8648.3	8624.1	8976.6	9610.7	9686.8	10759.8	11461.3
30°	9391.3	9413.7	9386.1	9273.8	8993.9	8762.3	9007.7	9553.7	9622.8	10695.9	11380.1
32.5°	9949.4	10004.7	10003.0	9885.5	9484.6	9071.6	9135.6	9519.2	9572.7	10628.5	11281.6
35°	10528.3	10604.3	10746.0	10695.9	10200.0	9560.6	9380.9	9574.4	9610.7	10619.8	11212.5
37.5°	11129.6	11205.6	11497.6	11632.4	11051.8	10260.4	9768.0	9769.7	9787.0	10725.2	11207.3
40°	11758.5	11839.8	12278.7	12629.4	12156.0	11146.9	10391.8	10177.5	10158.5	10984.4	11309.3
42.5°	12639.8	12712.4	13239.4	13686.9	13381.1	12282.1	11254.0	10806.5	10766.7	11492.4	11635.9
45°	13754.3	13816.5	14376.4	14855.0	14697.8	13578.1	12337.4	11672.2	11665.2	12339.1	12297.7
47.5°	15079.6	15128.0	15630.8	16093.9	16150.9	15069.3	13699.0	13007.8	12895.5	13500.3	13322.3
50°	16460.2	16513.8	16855.9	17353.6	17776.9	17065.0	15451.1	14644.2	14493.9	15033.0	14773.8
52.5°	17374.3	17445.2	17742.4	18373.1	19605.1	19252.6	17522.9	16627.8	16399.8	16890.5	16691.8
55°	16966.5	17125.5	17579.9	18590.8	21066.9	22594.4	20078.5	18941.5	18684.1	19091.9	18974.4
57.5°	15112.5	15330.2	15950.5	17510.8	21272.5	25538.8	23942.2	21666.5	21485.1	21367.6	21421.1
60°	11724.0	11933.1	12702.0	14735.8	19840.1	27688.3	29756.6	25025.6	24762.9	23651.9	23700.3
62.5°	8297.5	8192.1	8719.1	10206.9	16121.6	27940.6	36372.9	29518.2	28654.2	26064.1	25851.5
65°	6327.7	6303.5	6540.2	7013.7	9764.5	24921.9	40314.3	37069.2	35719.7	28901.3	28400.2
67.5°	5199.3	5156.1	5389.4	6078.8	6287.9	16078.4	40400.7	45829.8	44504.5	32433.2	31348.1
70°	4274.9	4226.5	4444.2	5334.1	5811.0	8154.1	34002.2	50960.0	50889.2	36905.1	33573.6
71°	3832.5	3798.0	4058.9	5047.3	5709.1	6795.9	29357.5	50973.9	51186.4	38418.7	33442.3
72.5°	3120.6	3132.7	3409.2	4492.6	5633.0	6001.1	21576.6	48598.0	49047.2	39861.6	32248.3
75°	2073.5	2083.9	2446.7	3455.9	5462.0	5871.5	11858.8	40779.1	41605.0	38997.6	29426.6
77.5°	1392.7	1389.3	1636.3	2370.7	4758.7	5871.5	6953.2	30499.6	31406.8	31030.1	22686.0
80°	959.0	952.1	1126.6	1636.3	3602.7	5942.3	5375.6	21374.5	21649.2	16757.4	9220.2
82.5°	587.5	592.7	736.1	1156.0	2451.9	5347.9	5074.9	11654.9	11355.9	4700.0	2303.3
85°	336.9	335.2	470.0	782.8	1574.1	4513.3	4948.8	5016.2	4601.5	1415.2	832.9
87.5°	121.0	129.6	252.3	433.7	902.0	3143.1	4198.9	2609.2	2351.7	639.3	376.7
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°	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8	11464.8
2.5°	11451.0	11461.3	11449.2	11380.1	11321.4	11226.3	11172.8	11098.5	11076.0	11065.6	11093.3
5°	11494.2	11497.6	11395.7	11214.2	11010.4	10770.2	10597.4	10384.8	10284.6	10241.4	10269.1
7.5°	11533.9	11518.4	11295.5	10948.1	10571.5	10153.3	9781.8	9441.4	9242.7	9161.5	9168.4
10°	11539.1	11473.4	11115.8	10578.4	9994.3	9380.9	8810.7	8285.4	7953.7	7737.7	7803.3
12.5°	11485.5	11374.9	10851.4	10099.7	9289.3	8453.0	7682.4	6894.4	6421.0	6201.5	6208.4
15°	11444.1	11243.6	10526.5	9536.4	8447.8	7340.2	6287.9	5361.8	4857.2	4632.6	4527.2
17.5°	11409.5	11101.9	10149.8	8902.3	7454.3	6049.5	4784.6	3958.7	3682.2	3616.6	3588.9
20°	11361.1	10951.6	9730.0	8167.9	6322.5	4604.9	3493.9	3086.1	3087.8	3163.8	3174.2
22.5°	11293.7	10780.5	9282.4	7343.7	5107.8	3353.9	2738.8	2621.3	2740.5	2885.6	2911.6
25°	11193.5	10578.4	8784.8	6433.1	3894.7	2578.1	2339.6	2334.4	2479.6	2631.6	2654.1
27.5°	11051.8	10314.0	8231.8	5455.1	2870.1	2191.0	2096.0	2132.3	2239.4	2350.0	2358.6
30°	10861.8	10006.4	7621.9	4423.5	2249.8	1950.8	1940.5	1973.3	2039.0	2116.7	2123.6
32.5°	10652.7	9693.7	6970.5	3424.8	1926.6	1821.2	1831.6	1847.2	1878.3	1909.4	1916.3
35°	10462.6	9374.0	6303.5	2602.3	1772.9	1736.6	1729.7	1726.2	1729.7	1719.3	1721.0
37.5°	10339.9	9109.6	5608.9	2071.8	1684.7	1662.3	1641.5	1615.6	1586.2	1569.0	1572.4
40°	10295.0	8912.6	4905.6	1790.1	1612.2	1596.6	1556.9	1501.6	1467.0	1456.6	1456.6
42.5°	10415.9	8810.7	4226.5	1648.4	1551.7	1525.8	1460.1	1396.2	1370.2	1368.5	1366.8
45°	10785.7	8852.2	3580.3	1570.7	1496.4	1446.3	1359.9	1306.3	1289.0	1292.5	1290.8
47.5°	11449.2	9113.1	3027.3	1518.8	1441.1	1375.4	1278.7	1235.5	1214.7	1214.7	1216.5
50°	12577.6	9723.0	2586.7	1475.7	1394.4	1309.8	1219.9	1166.4	1138.7	1137.0	1137.0
52.5°	14220.8	10815.1	2312.0	1439.4	1342.6	1251.0	1161.2	1093.8	1060.9	1054.0	1050.6
55°	16280.5	12380.6	2235.9	1415.2	1273.5	1187.1	1090.3	1022.9	986.6	971.1	969.4
57.5°	18583.9	14284.8	2386.3	1385.8	1202.6	1111.1	1012.6	948.6	910.6	891.6	889.9
60°	20914.8	16363.5	2999.7	1344.3	1143.9	1028.1	933.1	874.3	836.3	815.6	812.1
62.5°	23249.3	18554.5	4252.4	1340.9	1102.4	948.6	851.9	801.8	765.5	743.0	737.8
65°	25882.6	20952.8	5676.2	1432.5	1088.6	876.1	768.9	729.2	698.1	677.3	675.6
67.5°	28906.5	23660.5	5539.7	1620.8	1135.2	810.4	691.2	660.1	637.6	620.3	618.6
70°	30325.1	23237.2	3443.8	1753.8	1200.9	746.5	616.9	594.4	577.1	565.0	559.8
71°	29730.7	22063.9	2887.4	1738.3	1194.0	718.8	587.5	570.2	552.9	542.6	537.4
72.5°	28109.9	20121.7	2408.7	1617.3	1116.2	668.7	549.5	532.2	516.7	504.6	501.1
75°	25224.3	17970.4	1928.4	1292.5	889.9	565.0	482.1	463.1	451.0	444.1	437.2
77.5°	18542.4	12824.7	1491.2	1021.2	654.9	461.4	411.2	397.4	385.3	375.0	369.8
80°	7103.5	4967.8	1003.9	762.0	480.4	364.6	331.8	324.9	312.8	305.8	305.8
82.5°	1912.8	1484.3	535.7	461.4	321.4	266.1	254.0	250.5	240.2	226.4	228.1
85°	774.1	654.9	300.7	254.0	197.0	157.2	171.1	172.8	160.7	143.4	145.1
87.5°	340.4	278.2	167.6	112.3	86.4	60.5	77.8	77.8	70.8	58.7	53.6
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)