

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: P323863

Luminaire Tested: **GAN-SA9D-740-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9D-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 56298 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

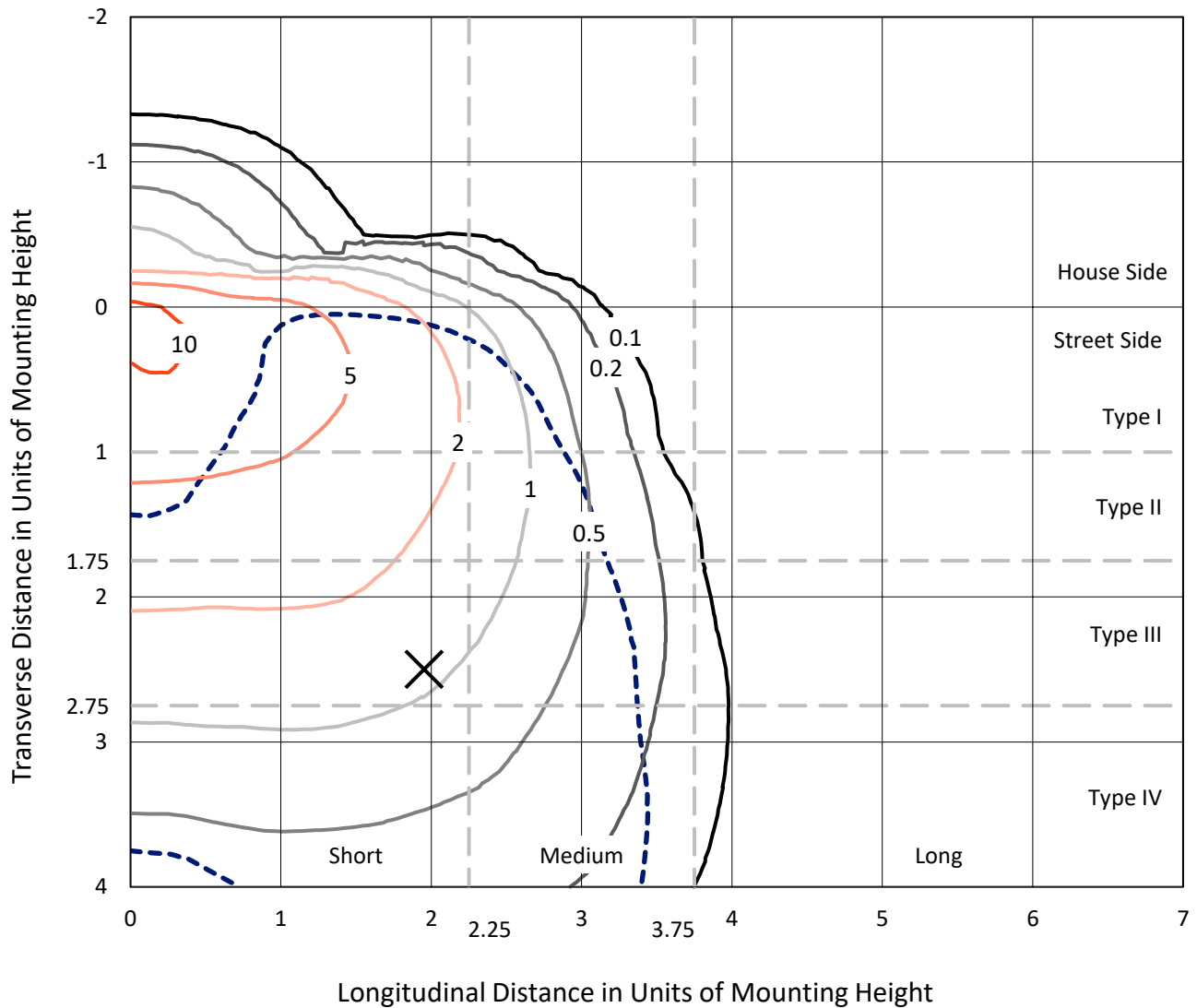
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

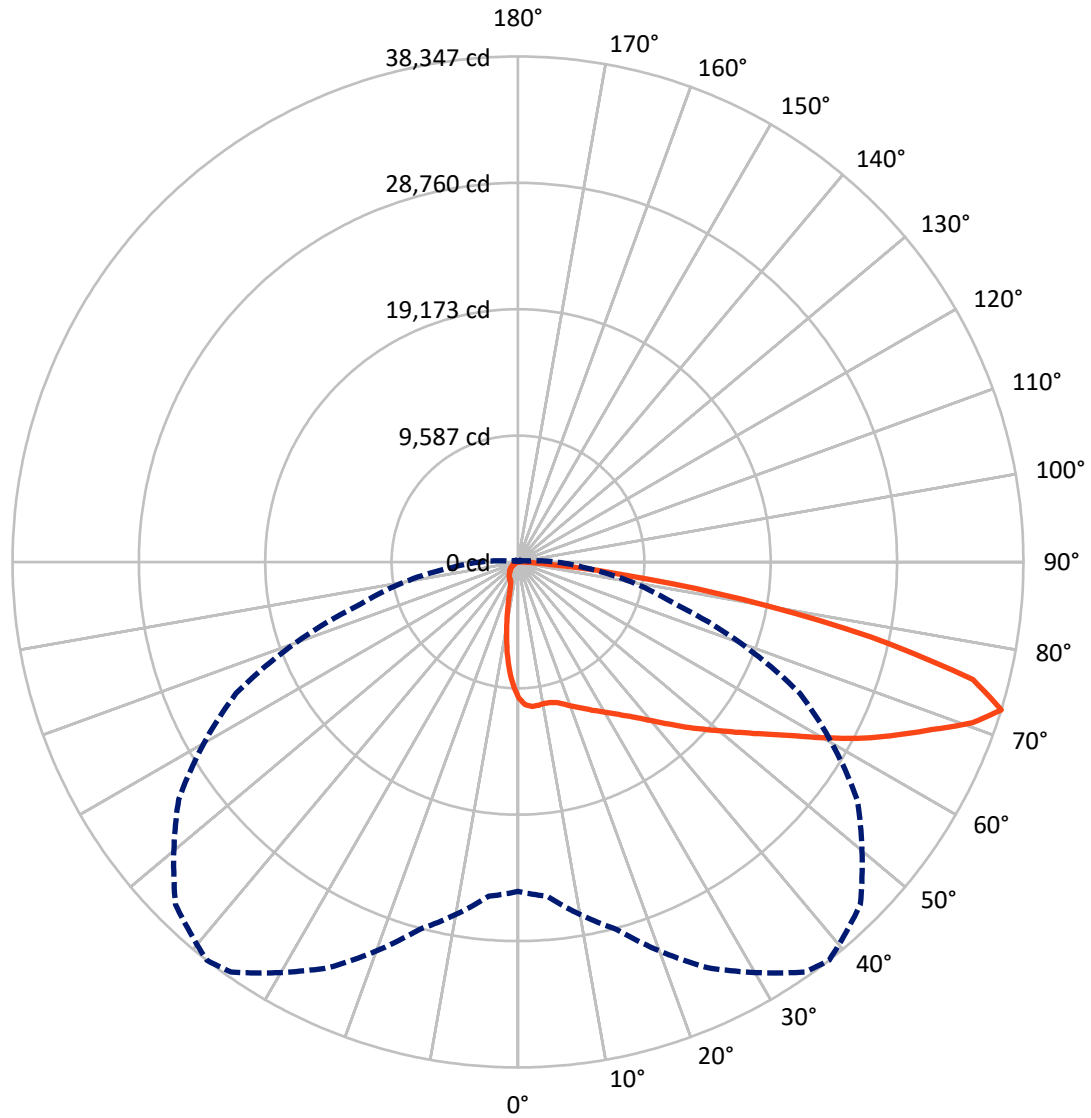
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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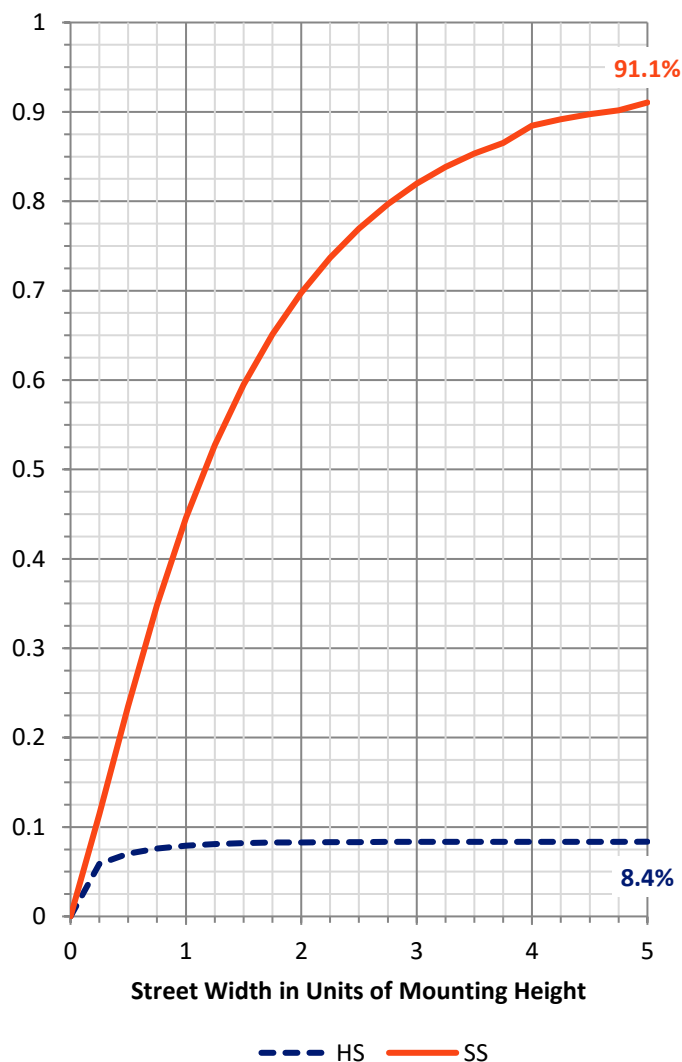
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4737.7	0.0	4737.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	51560.3	0.0	51560.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	56298.0	0.0	56298.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	882.3	1.6
10°-20°	2157.4	3.8
20°-30°	3431.2	6.1
30°-40°	5158.5	9.2
40°-50°	7869.7	14.0
50°-60°	11122.5	19.8
60°-70°	13951.3	24.8
70°-80°	10431.7	18.5
80°-90°	1293.5	2.3
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°	56298.0	100.0
0°-180°	56298.0	100.0

**Coefficient of Utilization**

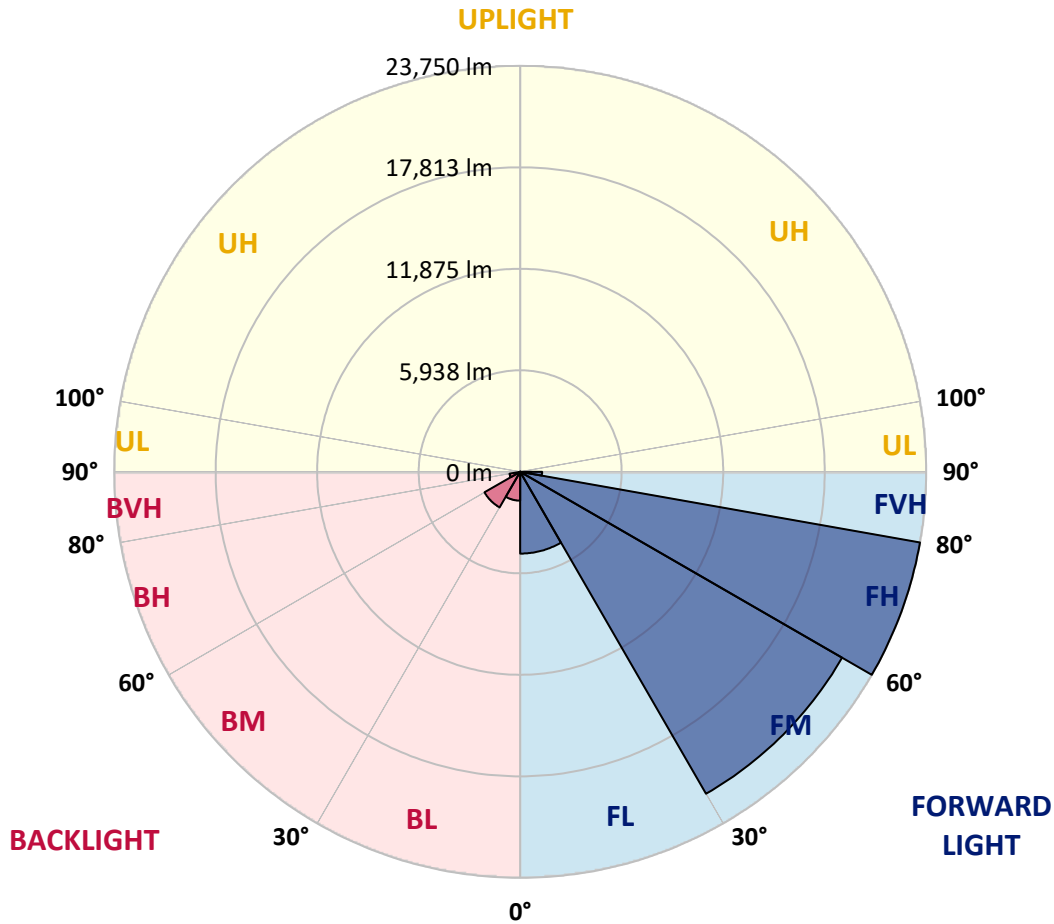


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4784.0	8.5			
FM (30°-60°)	21744.8	38.6			
FH (60°-80°)	23750.1	42.2			G5
FVH (80°-90°)	1281.4	2.3			G5
BL (0°-30°)	1686.9	3.0	B3/2500		
BM (30°-60°)	2405.9	4.3	B2/2500		
BH (60°-80°)	632.8	1.1	B2/1000		G2/1000
BVH (80°-90°)	12.1	0.0			G1/100
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°	38°	45°	55°	65°	75°	85°
0°	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0
2.5°	10989.0	10991.3	10965.6	10923.5	10869.7	10841.7	10794.9	10720.1	10640.6	10498.0	10343.7
5°	11213.4	11213.4	11180.7	11124.6	11038.1	11012.4	10923.5	10804.3	10640.6	10409.1	10149.6
7.5°	11190.0	11194.7	11150.3	11091.8	11005.3	10982.0	10874.4	10741.1	10537.7	10257.2	9925.1
10°	11068.5	11080.2	11045.1	11017.0	10937.5	10911.8	10811.3	10678.0	10474.6	10175.3	9794.2
12.5°	10944.6	10956.2	10967.9	10993.7	10944.6	10935.2	10855.7	10743.5	10549.4	10238.5	9808.2
15°	10865.1	10888.4	10972.6	11073.1	11084.8	11075.5	11024.0	10918.8	10722.4	10399.8	9908.8
17.5°	10865.1	10902.5	11077.8	11269.5	11337.3	11344.4	11299.9	11152.6	10918.8	10572.8	10002.3
20°	10956.2	11007.7	11281.2	11552.5	11664.7	11664.7	11578.2	11372.4	11098.9	10729.4	10065.4
22.5°	11190.0	11257.9	11601.6	11914.9	12034.1	12008.4	11891.5	11592.2	11285.9	10907.1	10144.9
25°	11650.7	11702.1	12059.8	12375.5	12447.9	12389.5	12242.2	11858.7	11524.4	11148.0	10289.9
27.5°	12244.5	12251.5	12621.0	12887.5	12843.1	12803.3	12618.6	12193.1	11868.1	11491.7	10540.1
30°	12896.8	12896.8	13221.8	13425.3	13289.6	13256.9	13072.2	12597.6	12307.7	11959.3	10895.5
32.5°	13528.1	13556.2	13820.4	13949.0	13797.0	13764.3	13584.2	13109.6	12892.2	12672.4	11449.6
35°	14138.4	14159.4	14409.6	14479.7	14334.8	14344.1	14215.5	13813.4	13731.5	13703.5	12284.3
37.5°	14729.9	14734.6	14989.4	15033.9	14961.4	15040.9	15052.6	14697.2	14849.1	15075.9	13460.3
40°	15270.0	15274.7	15527.2	15641.8	15765.7	15868.5	15959.7	15770.3	16273.0	16799.1	14860.8
42.5°	15702.5	15751.6	16072.0	16289.4	16616.7	16813.1	17061.0	17051.6	17968.1	18758.4	16553.6
45°	16083.6	16167.8	16614.4	16995.5	17556.6	17869.9	18258.1	18562.0	19876.0	20939.8	18267.4
47.5°	16586.3	16665.8	17175.5	17799.8	18548.0	18959.5	19602.5	20259.5	21973.3	23081.5	19941.5
50°	17294.8	17259.7	17762.4	18657.9	19618.8	20158.9	21075.4	22059.8	24054.2	24947.3	20925.8
52.5°	18050.0	18035.9	18407.7	19590.8	20881.4	21512.7	22723.8	23920.9	26043.9	26233.3	21377.1
55°	18985.2	18884.7	19198.0	20654.6	22380.1	23058.1	24484.4	25763.3	27629.1	26958.1	21603.9
57.5°	19964.9	19798.9	20098.1	21840.0	24070.5	24872.5	26434.3	27558.9	28683.6	27453.7	21601.5
60°	20977.3	20780.9	21136.2	23322.3	26170.1	27098.3	28548.0	28772.4	29667.9	27703.9	21442.5
62.5°	21823.6	21706.7	22235.1	24907.6	28515.2	29427.1	30144.9	29876.0	30497.9	27898.0	21070.8
65°	22719.1	22726.1	23579.5	26757.0	31007.6	31622.5	31683.3	31306.9	31192.3	27858.2	19812.9
67.5°	23930.2	24042.5	25466.4	29268.1	33432.2	33906.8	33902.2	32857.0	31699.7	26277.7	17023.6
70°	25211.5	25475.7	27640.8	32141.6	36078.9	36560.6	36312.7	33843.7	29847.9	21248.5	12048.1
72.5°	24996.4	25454.7	28849.6	33953.6	37979.8	38346.8	36735.9	31419.1	23591.2	12349.7	5129.7
75°	19284.5	19815.2	26453.0	32157.9	35985.4	35655.7	31564.1	24449.3	12892.2	3446.3	1155.0
77.5°	10187.0	10469.9	17474.8	24498.4	28059.3	27369.6	22235.1	13563.2	3930.3	853.4	519.1
80°	5335.5	5401.0	7615.1	13899.9	17318.2	17322.8	13177.4	5957.4	1620.3	437.2	348.4
82.5°	2857.1	2913.2	4023.8	6422.7	9074.1	8225.4	5045.6	3278.0	942.2	247.8	334.3
85°	687.4	699.1	2282.0	2934.3	3567.9	2548.5	1498.7	2751.9	254.9	145.0	271.2
87.5°	264.2	268.9	846.4	1269.6	909.5	589.2	701.4	1026.4	32.7	56.1	42.1
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°	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0
2.5°	10250.1	10189.4	10039.7	9850.3	9682.0	9560.4	9378.0	9258.8	9179.3	9177.0	9146.6
5°	9990.6	9866.7	9544.0	9160.6	8812.2	8498.9	8129.5	7837.2	7619.8	7584.7	7509.9
7.5°	9712.4	9509.0	9013.3	8414.7	7830.2	7236.4	6546.6	6118.8	5751.7	5576.3	5557.6
10°	9541.7	9256.5	8552.7	7687.6	6771.1	5805.5	4903.0	4278.7	3827.4	3698.8	3603.0
12.5°	9506.6	9130.2	8197.3	7004.9	5695.6	4419.0	3420.6	2756.6	2396.5	2282.0	2251.6
15°	9541.7	9071.7	7898.0	6329.2	4606.0	3135.4	2296.0	1910.2	1774.6	1741.9	1739.5
17.5°	9562.7	9001.6	7559.0	5578.7	3549.2	2239.9	1758.2	1646.0	1625.0	1622.6	1627.3
20°	9560.4	8894.1	7154.5	4741.6	2639.7	1760.6	1589.9	1566.5	1561.8	1564.2	1561.8
22.5°	9544.0	8767.8	6710.3	3878.9	1994.4	1573.5	1517.4	1503.4	1501.0	1501.0	1501.0
25°	9574.4	8667.3	6221.6	3053.5	1643.7	1487.0	1451.9	1440.3	1437.9	1437.9	1433.2
27.5°	9684.3	8611.1	5686.2	2349.8	1484.7	1409.9	1381.8	1379.5	1372.5	1370.1	1374.8
30°	9862.0	8611.1	5099.4	1828.4	1388.8	1330.4	1309.3	1304.6	1302.3	1300.0	1302.3
32.5°	10175.3	8676.6	4458.7	1519.8	1297.6	1241.5	1227.5	1234.5	1227.5	1227.5	1227.5
35°	10741.1	8873.0	3787.7	1325.7	1201.8	1155.0	1141.0	1150.3	1145.7	1145.7	1143.3
37.5°	11566.5	9237.8	3112.0	1208.8	1117.6	1068.5	1049.8	1063.8	1059.2	1059.2	1056.8
40°	12571.9	9768.5	2469.0	1119.9	1035.8	984.3	968.0	975.0	963.3	963.3	968.0
42.5°	13813.4	10441.9	1907.9	1033.4	953.9	904.8	895.5	888.5	867.4	855.7	858.1
45°	15192.8	11143.3	1487.0	949.3	876.8	837.0	823.0	804.3	769.2	745.8	748.2
47.5°	16425.0	11683.4	1208.8	867.4	806.6	776.2	755.2	720.1	668.7	640.6	643.0
50°	17072.7	11765.2	1028.8	785.6	741.2	710.8	680.4	626.6	565.8	535.4	533.1
52.5°	17238.7	11381.8	895.5	710.8	675.7	640.6	600.9	528.4	460.6	427.9	423.2
55°	17299.5	10797.3	776.2	640.6	605.6	565.8	514.4	432.5	369.4	336.7	334.3
57.5°	17098.4	9925.1	682.7	577.5	535.4	486.3	423.2	346.0	285.2	259.5	259.5
60°	16651.8	8744.4	610.2	509.7	462.9	406.8	341.4	268.9	212.8	191.7	191.7
62.5°	15761.0	7215.3	542.4	439.6	395.1	336.7	275.9	203.4	149.6	137.9	140.3
65°	14079.9	5473.4	474.6	376.4	336.7	278.2	215.1	145.0	100.5	100.5	105.2
67.5°	11482.3	3801.7	404.5	320.3	289.9	226.8	163.7	100.5	70.1	79.5	88.8
70°	7601.1	2132.3	346.0	264.2	247.8	180.0	121.6	67.8	56.1	74.8	91.2
72.5°	2868.8	830.0	289.9	212.8	215.1	137.9	86.5	51.4	51.4	81.8	107.6
75°	799.6	406.8	208.1	156.7	168.3	100.5	63.1	44.4	49.1	93.5	126.3
77.5°	470.0	299.3	135.6	91.2	114.6	70.1	42.1	35.1	42.1	79.5	121.6
80°	378.8	159.0	79.5	46.8	63.1	39.7	28.1	21.0	11.7	30.4	63.1
82.5°	378.8	95.9	37.4	32.7	32.7	21.0	14.0	9.4	2.3	0.0	16.4
85°	254.9	39.7	23.4	21.0	16.4	7.0	4.7	2.3	0.0	0.0	0.0
87.5°	42.1	16.4	9.4	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
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)