

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: P323943

Luminaire Tested: **GAN-SA9D-760-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323943
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-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 56297 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

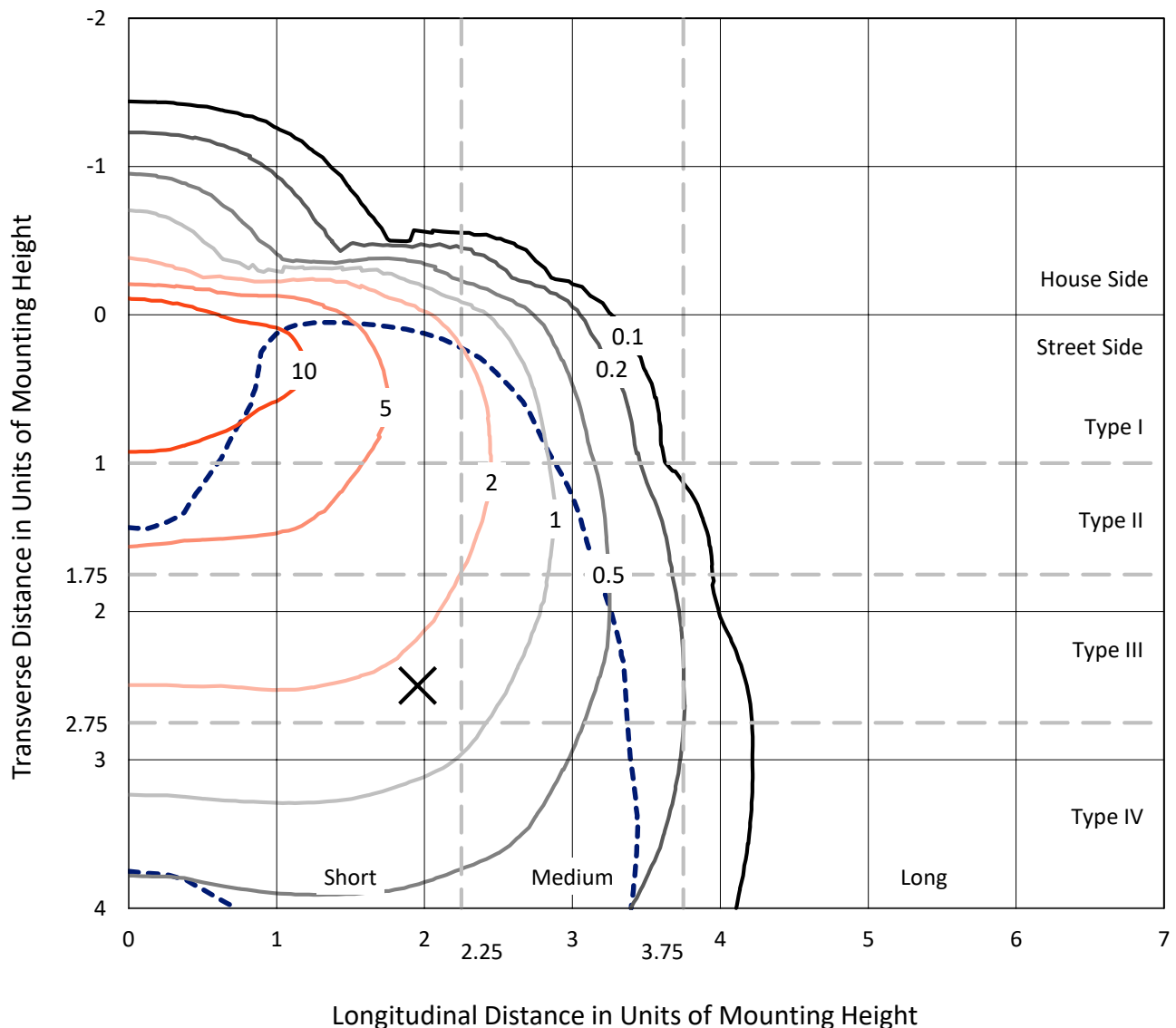
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

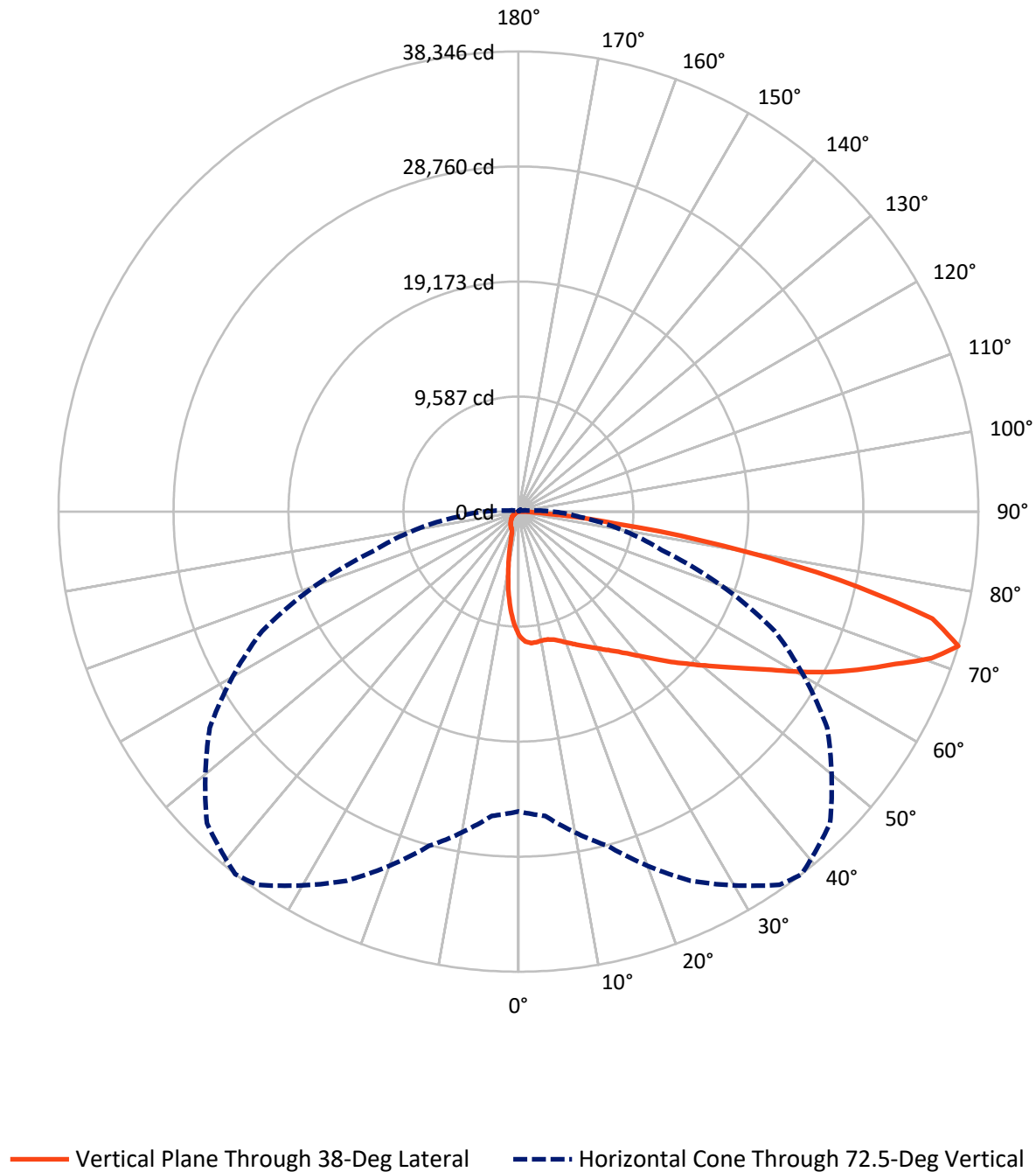
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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	4737.6	0.0	4737.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	51559.4	0.0	51559.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	56297.0	0.0	56297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.3	1.6
10°-20°	2157.3	3.8
20°-30°	3431.2	6.1
30°-40°	5158.4	9.2
40°-50°	7869.5	14.0
50°-60°	11122.3	19.8
60°-70°	13951.1	24.8
70°-80°	10431.5	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°	56297.0	100.0
0°-180°	56297.0	100.0

Coefficient of Utilization



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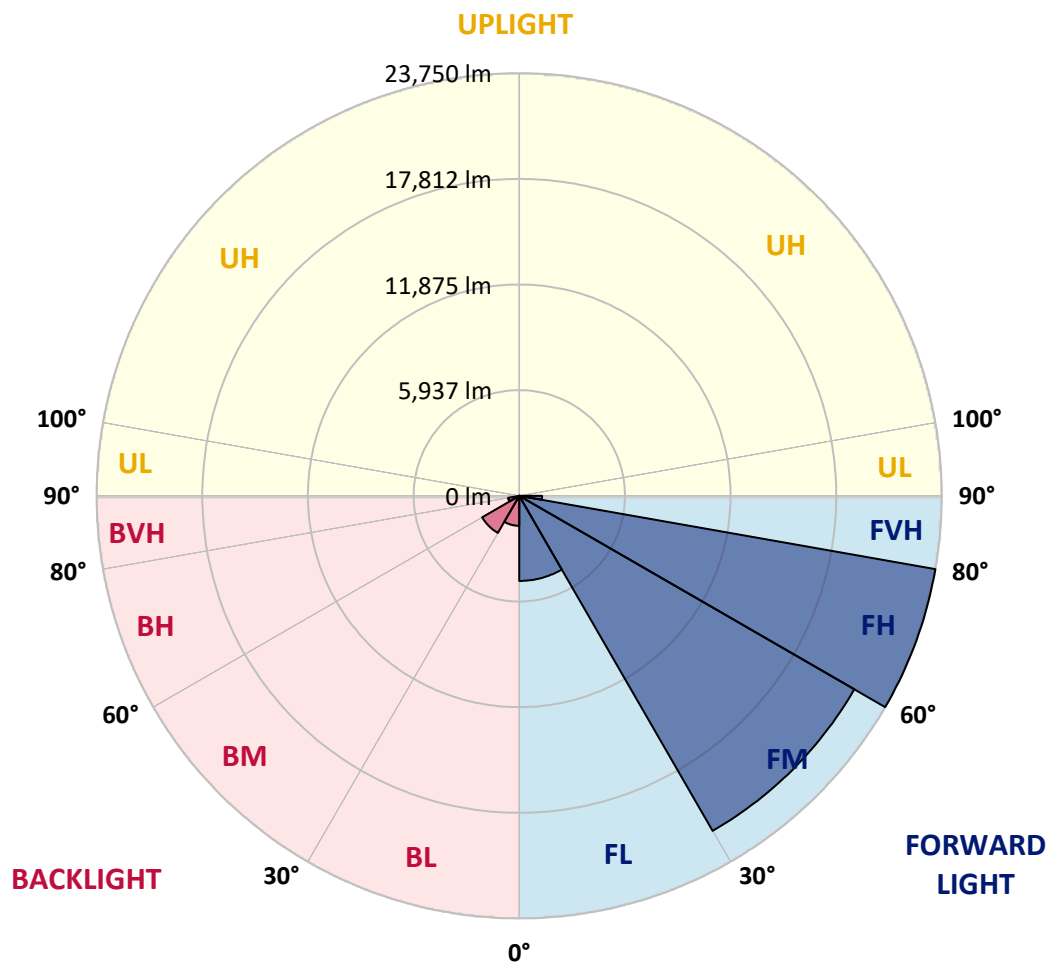
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4783.9	8.5			
FM	(30°-60°)	21744.4	38.6			
FH	(60°-80°)	23749.7	42.2			G5
FVH	(80°-90°)	1281.4	2.3			G5
BL	(0°-30°)	1686.9	3.0	B3/2500		
BM	(30°-60°)	2405.8	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°	10352.8	10352.8	10352.8	10352.8	10352.8	10352.8	10352.8	10352.8	10352.8	10352.8	10352.8
2.5°	10988.8	10991.1	10965.4	10923.3	10869.5	10841.5	10794.7	10719.9	10640.4	10497.8	10343.5
5°	11213.2	11213.2	11180.5	11124.4	11037.9	11012.2	10923.3	10804.1	10640.4	10408.9	10149.4
7.5°	11189.9	11194.5	11150.1	11091.7	11005.1	10981.8	10874.2	10740.9	10537.5	10257.0	9925.0
10°	11068.3	11080.0	11044.9	11016.8	10937.3	10911.6	10811.1	10677.8	10474.4	10175.1	9794.0
12.5°	10944.4	10956.0	10967.7	10993.5	10944.4	10935.0	10855.5	10743.3	10549.2	10238.3	9808.1
15°	10864.9	10888.2	10972.4	11072.9	11084.6	11075.3	11023.8	10918.6	10722.2	10399.6	9908.6
17.5°	10864.9	10902.3	11077.6	11269.3	11337.1	11344.2	11299.7	11152.4	10918.6	10572.6	10002.1
20°	10956.0	11007.5	11281.0	11552.2	11664.5	11664.5	11578.0	11372.2	11098.7	10729.3	10065.3
22.5°	11189.9	11257.7	11601.3	11914.6	12033.9	12008.2	11891.3	11592.0	11285.7	10906.9	10144.7
25°	11650.4	11701.9	12059.6	12375.2	12447.7	12389.3	12242.0	11858.5	11524.2	11147.8	10289.7
27.5°	12244.3	12251.3	12620.7	12887.3	12842.8	12803.1	12618.4	12192.9	11867.9	11491.5	10539.9
30°	12896.6	12896.6	13221.6	13425.0	13289.4	13256.7	13072.0	12597.3	12307.4	11959.1	10895.3
32.5°	13527.9	13555.9	13820.1	13948.7	13796.8	13764.0	13584.0	13109.4	12891.9	12672.2	11449.4
35°	14138.1	14159.2	14409.3	14479.5	14334.5	14343.9	14215.3	13813.1	13731.3	13703.2	12284.1
37.5°	14729.6	14734.3	14989.2	15033.6	14961.1	15040.6	15052.3	14696.9	14848.9	15075.7	13460.1
40°	15269.7	15274.4	15526.9	15641.5	15765.4	15868.3	15959.4	15770.1	16272.7	16798.8	14860.6
42.5°	15702.3	15751.4	16071.7	16289.1	16616.4	16812.8	17060.7	17051.3	17967.8	18758.1	16553.3
45°	16083.4	16167.5	16614.1	16995.2	17556.3	17869.6	18257.7	18561.7	19875.7	20939.5	18267.1
47.5°	16586.0	16665.5	17175.2	17799.5	18547.7	18959.2	19602.1	20259.1	21972.9	23081.1	19941.1
50°	17294.5	17259.4	17762.1	18657.5	19618.5	20158.6	21075.1	22059.4	24053.7	24946.9	20925.4
52.5°	18049.7	18035.6	18407.4	19590.4	20881.0	21512.3	22723.4	23920.5	26043.4	26232.8	21376.7
55°	18984.9	18884.3	19197.6	20654.2	22379.7	23057.7	24483.9	25762.8	27628.6	26957.6	21603.5
57.5°	19964.5	19798.5	20097.8	21839.6	24070.1	24872.0	26433.9	27558.5	28683.1	27453.2	21601.1
60°	20976.9	20780.5	21135.9	23321.9	26169.7	27097.9	28547.4	28771.9	29667.4	27703.4	21442.1
62.5°	21823.2	21706.3	22234.7	24907.1	28514.7	29426.5	30144.3	29875.5	30497.4	27897.5	21070.4
65°	22718.7	22725.7	23579.1	26756.5	31007.1	31622.0	31682.8	31306.3	31191.8	27857.7	19812.5
67.5°	23929.8	24042.0	25465.9	29267.6	33431.6	33906.2	33901.6	32856.4	31699.1	26277.2	17023.3
70°	25211.1	25475.3	27640.3	32141.0	36078.3	36559.9	36312.1	33843.1	29847.4	21248.1	12047.9
72.5°	24996.0	25454.2	28849.1	33953.0	37979.1	38346.2	36735.3	31418.6	23590.8	12349.5	5129.7
75°	19284.1	19814.9	26452.6	32157.4	35984.7	35655.1	31563.5	24448.9	12891.9	3446.3	1155.0
77.5°	10186.8	10469.7	17474.5	24498.0	28058.8	27369.1	22234.7	13563.0	3930.2	853.4	519.0
80°	5335.4	5400.9	7615.0	13899.6	17317.8	17322.5	13177.2	5957.3	1620.3	437.2	348.4
82.5°	2857.1	2913.2	4023.8	6422.6	9073.9	8225.2	5045.5	3277.9	942.2	247.8	334.3
85°	687.4	699.1	2281.9	2934.2	3567.8	2548.5	1498.7	2751.9	254.8	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°	10352.8	10352.8	10352.8	10352.8	10352.8	10352.8	10352.8	10352.8	10352.8	10352.8	10352.8
2.5°	10250.0	10189.2	10039.5	9850.2	9681.8	9560.2	9377.9	9258.6	9179.1	9176.8	9146.4
5°	9990.4	9866.5	9543.9	9160.4	8812.1	8498.8	8129.4	7837.1	7619.7	7584.6	7509.8
7.5°	9712.2	9508.8	9013.1	8414.6	7830.1	7236.2	6546.5	6118.6	5751.6	5576.2	5557.5
10°	9541.5	9256.3	8552.5	7687.5	6771.0	5805.3	4902.9	4278.6	3827.4	3698.8	3602.9
12.5°	9506.5	9130.0	8197.2	7004.8	5695.5	4418.9	3420.5	2756.5	2396.5	2281.9	2251.5
15°	9541.5	9071.6	7897.9	6329.1	4605.9	3135.3	2296.0	1910.2	1774.6	1741.8	1739.5
17.5°	9562.6	9001.4	7558.9	5578.6	3549.1	2239.8	1758.2	1646.0	1624.9	1622.6	1627.3
20°	9560.2	8893.9	7154.4	4741.5	2639.6	1760.5	1589.9	1566.5	1561.8	1564.1	1561.8
22.5°	9543.9	8767.6	6710.2	3878.8	1994.3	1573.5	1517.4	1503.4	1501.0	1501.0	1501.0
25°	9574.3	8667.1	6221.5	3053.5	1643.6	1487.0	1451.9	1440.2	1437.9	1437.9	1433.2
27.5°	9684.2	8611.0	5686.1	2349.7	1484.7	1409.8	1381.8	1379.4	1372.4	1370.1	1374.8
30°	9861.8	8611.0	5099.3	1828.3	1388.8	1330.3	1309.3	1304.6	1302.3	1299.9	1302.3
32.5°	10175.1	8676.5	4458.6	1519.7	1297.6	1241.5	1227.5	1234.5	1227.5	1227.5	1227.5
35°	10740.9	8872.9	3787.6	1325.7	1201.8	1155.0	1141.0	1150.3	1145.6	1145.6	1143.3
37.5°	11566.3	9237.6	3111.9	1208.8	1117.6	1068.5	1049.8	1063.8	1059.1	1059.1	1056.8
40°	12571.6	9768.3	2469.0	1119.9	1035.8	984.3	967.9	975.0	963.3	963.3	967.9
42.5°	13813.1	10441.7	1907.8	1033.4	953.9	904.8	895.5	888.5	867.4	855.7	858.1
45°	15192.6	11143.1	1487.0	949.2	876.8	837.0	823.0	804.3	769.2	745.8	748.2
47.5°	16424.7	11683.2	1208.8	867.4	806.6	776.2	755.2	720.1	668.7	640.6	643.0
50°	17072.4	11765.0	1028.7	785.6	741.2	710.8	680.4	626.6	565.8	535.4	533.1
52.5°	17238.4	11381.6	895.5	710.8	675.7	640.6	600.9	528.4	460.6	427.9	423.2
55°	17299.1	10797.1	776.2	640.6	605.6	565.8	514.4	432.5	369.4	336.7	334.3
57.5°	17098.1	9925.0	682.7	577.5	535.4	486.3	423.2	346.0	285.2	259.5	259.5
60°	16651.5	8744.3	610.2	509.7	462.9	406.8	341.4	268.9	212.8	191.7	191.7
62.5°	15760.7	7215.2	542.4	439.6	395.1	336.7	275.9	203.4	149.6	137.9	140.3
65°	14079.7	5473.3	474.6	376.4	336.7	278.2	215.1	145.0	100.5	100.5	105.2
67.5°	11482.1	3801.6	404.5	320.3	289.9	226.8	163.7	100.5	70.1	79.5	88.8
70°	7601.0	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	107.5
75°	799.6	406.8	208.1	156.6	168.3	100.5	63.1	44.4	49.1	93.5	126.3
77.5°	469.9	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°	254.8	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)