

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: P323942

Luminaire Tested: **GAN-SA8D-760-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323942
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-SA8D-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 50470 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

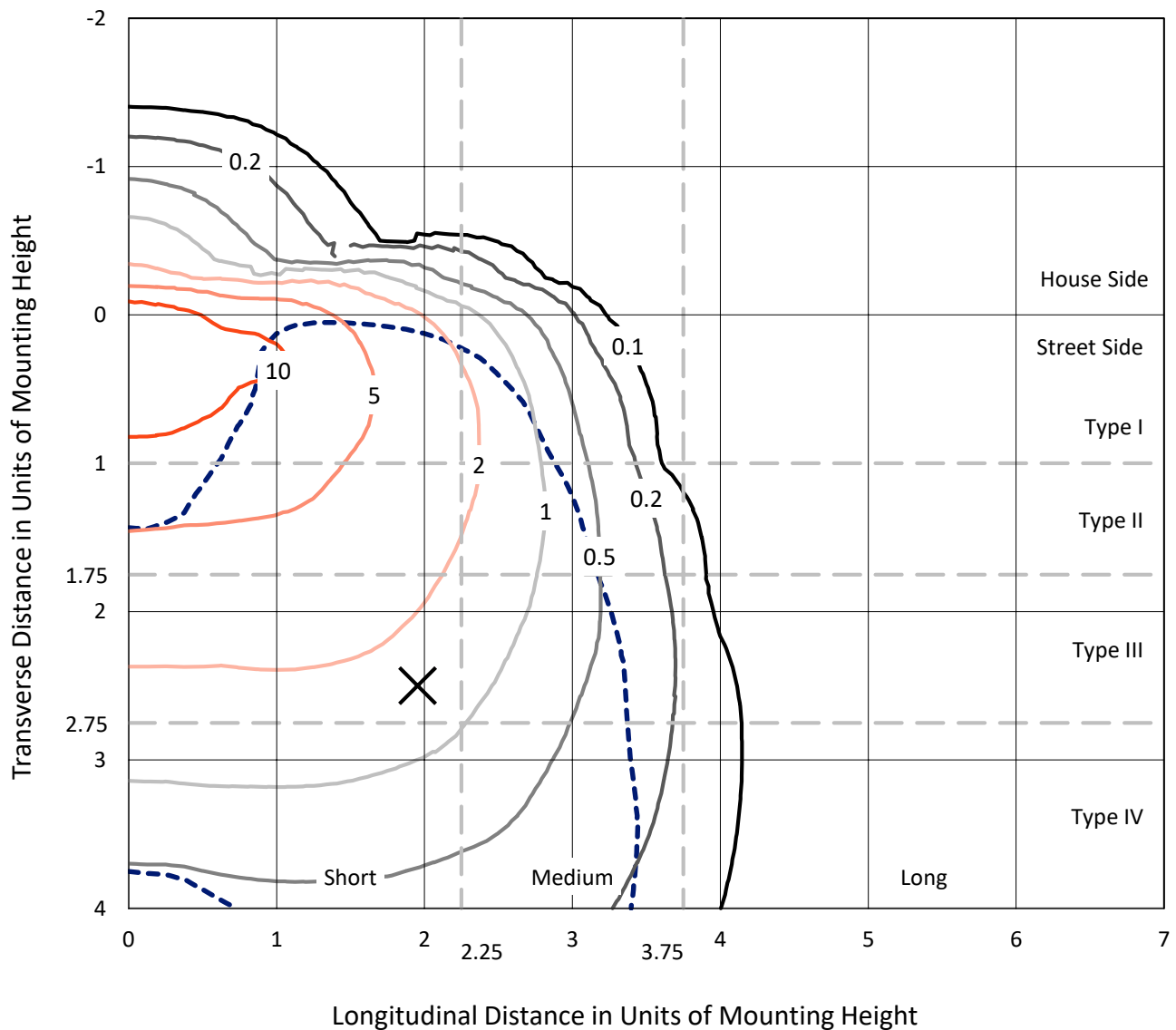


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Iso-Footcandle Lines of Horizontal Illumination

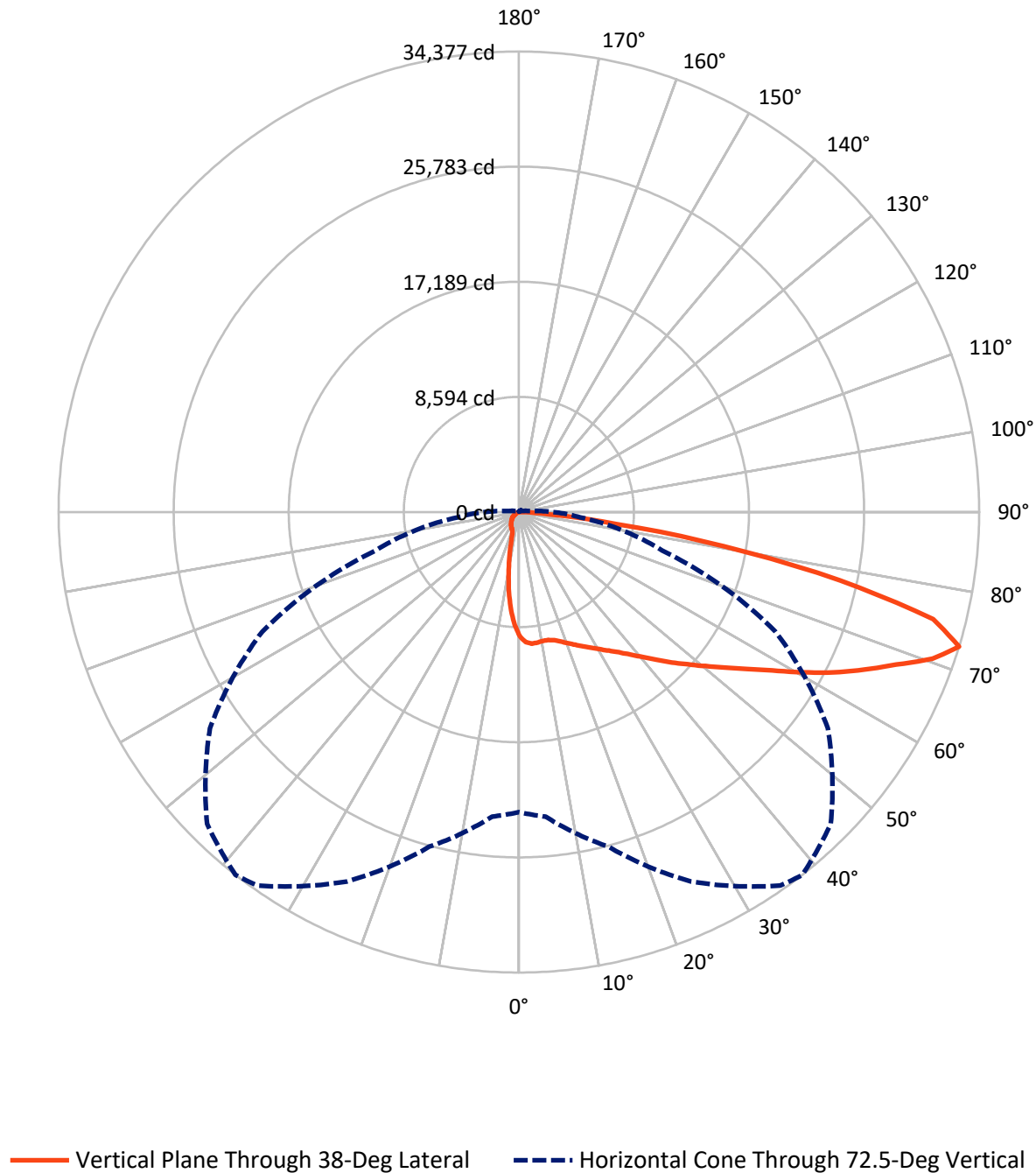
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	4247.2	0.0	4247.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	46222.8	0.0	46222.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	50470.0	0.0	50470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.9	1.6
10°-20°	1934.0	3.8
20°-30°	3076.0	6.1
30°-40°	4624.5	9.2
40°-50°	7055.0	14.0
50°-60°	9971.1	19.8
60°-70°	12507.1	24.8
70°-80°	9351.8	18.5
80°-90°	1159.6	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°	50470.0	100.0
0°-180°	50470.0	100.0

Coefficient of Utilization



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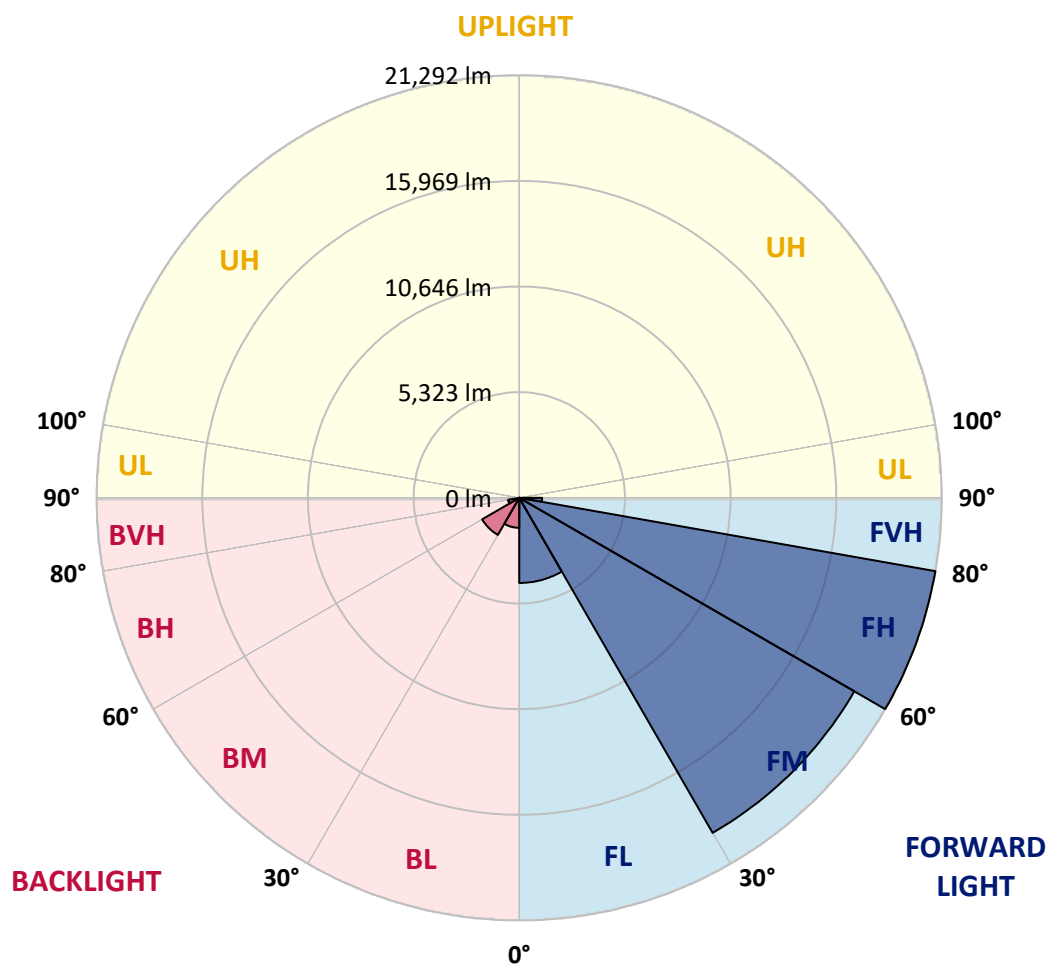
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4288.7	8.5			
FM	(30°-60°)	19493.7	38.6			
FH	(60°-80°)	21291.5	42.2			G5
FVH	(80°-90°)	1148.8	2.3			G5
BL	(0°-30°)	1512.3	3.0	B3/2500		
BM	(30°-60°)	2156.8	4.3	B2/2500		
BH	(60°-80°)	567.3	1.1	B2/1000		G2/1000
BVH	(80°-90°)	10.8	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°	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3
2.5°	9851.4	9853.5	9830.4	9792.7	9744.5	9719.3	9677.4	9610.3	9539.1	9411.2	9272.9
5°	10052.6	10052.6	10023.3	9973.0	9895.4	9872.4	9792.7	9685.8	9539.1	9331.6	9098.9
7.5°	10031.6	10035.8	9996.0	9943.6	9866.1	9845.1	9748.7	9629.2	9446.9	9195.3	8897.7
10°	9922.7	9933.1	9901.7	9876.5	9805.3	9782.2	9692.1	9572.6	9390.3	9122.0	8780.3
12.5°	9811.6	9822.0	9832.5	9855.6	9811.6	9803.2	9731.9	9631.3	9457.3	9178.6	8792.9
15°	9740.3	9761.3	9836.7	9926.8	9937.3	9928.9	9882.8	9788.5	9612.4	9323.2	8883.0
17.5°	9740.3	9773.8	9931.0	10102.9	10163.7	10170.0	10130.2	9998.1	9788.5	9478.3	8966.9
20°	9822.0	9868.2	10113.4	10356.5	10457.1	10457.1	10379.6	10195.1	9949.9	9618.7	9023.5
22.5°	10031.6	10092.4	10400.6	10681.4	10788.3	10765.3	10660.5	10392.2	10117.6	9778.0	9094.7
25°	10444.6	10490.7	10811.4	11094.3	11159.3	11106.9	10974.9	10631.1	10331.4	9993.9	9224.7
27.5°	10977.0	10983.3	11314.4	11553.4	11513.5	11477.9	11312.3	10930.9	10639.5	10302.0	9448.9
30°	11561.8	11561.8	11853.1	12035.5	11913.9	11884.5	11719.0	11293.5	11033.6	10721.2	9767.5
32.5°	12127.7	12152.8	12389.7	12505.0	12368.7	12339.4	12178.0	11752.5	11557.6	11360.5	10264.3
35°	12674.8	12693.6	12917.9	12980.8	12850.8	12859.2	12743.9	12383.4	12310.0	12284.9	11012.6
37.5°	13205.1	13209.2	13437.7	13477.5	13412.6	13483.8	13494.3	13175.7	13312.0	13515.3	12066.9
40°	13689.2	13693.4	13919.8	14022.5	14133.6	14225.8	14307.6	14137.8	14588.4	15060.0	13322.4
42.5°	14077.0	14121.0	14408.2	14603.1	14896.6	15072.6	15294.8	15286.4	16108.1	16816.5	14840.0
45°	14418.7	14494.1	14894.5	15236.1	15739.2	16020.0	16368.0	16640.5	17818.4	18772.1	16376.4
47.5°	14869.3	14940.6	15397.5	15957.2	16627.9	16996.8	17573.2	18162.2	19698.6	20692.1	17877.1
50°	15504.4	15473.0	15923.6	16726.4	17587.9	18072.1	18893.7	19776.1	21564.1	22364.8	18759.6
52.5°	16181.4	16168.9	16502.1	17562.7	18719.7	19285.7	20371.4	21444.6	23347.8	23517.6	19164.1
55°	17019.8	16929.7	17210.6	18516.4	20063.3	20671.1	21949.7	23096.3	24768.9	24167.3	19367.4
57.5°	17898.1	17749.3	18017.6	19579.1	21578.7	22297.7	23697.8	24706.0	25714.2	24611.7	19365.3
60°	18805.7	18629.6	18948.2	20908.0	23461.0	24293.1	25592.7	25793.9	26596.7	24836.0	19222.8
62.5°	19564.4	19459.6	19933.3	22329.1	25563.3	26380.8	27024.2	26783.2	27340.8	25010.0	18889.5
65°	20367.2	20373.5	21138.6	23987.1	27797.7	28348.9	28403.4	28066.0	27963.3	24974.3	17761.8
67.5°	21453.0	21553.6	22830.1	26238.2	29971.3	30396.8	30392.6	29455.7	28418.1	23557.4	15261.3
70°	22601.6	22838.5	24779.4	28814.3	32344.0	32775.8	32553.6	30340.2	26758.1	19048.8	10800.9
72.5°	22408.8	22819.6	25863.0	30438.7	34048.1	34377.2	32933.0	28166.6	21149.0	11071.3	4598.7
75°	17288.1	17763.9	23714.6	28828.9	32260.2	31964.6	28296.5	21918.3	11557.6	3089.6	1035.4
77.5°	9132.4	9386.1	15665.8	21962.3	25154.6	24536.2	19933.3	12159.1	3523.4	765.1	465.3
80°	4783.2	4841.9	6826.8	12461.0	15525.4	15529.6	11813.3	5340.7	1452.6	392.0	312.3
82.5°	2561.4	2611.7	3607.3	5757.8	8134.7	7373.9	4523.3	2938.6	844.7	222.2	299.7
85°	616.2	626.7	2045.7	2630.5	3198.6	2284.7	1343.6	2467.0	228.5	130.0	243.1
87.5°	236.9	241.0	758.8	1138.1	815.4	528.2	628.8	920.2	29.3	50.3	37.7
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°	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3
2.5°	9189.0	9134.5	9000.4	8830.6	8679.7	8570.7	8407.2	8300.3	8229.1	8227.0	8199.7
5°	8956.4	8845.3	8556.0	8212.3	7900.0	7619.1	7287.9	7025.9	6831.0	6799.6	6732.5
7.5°	8707.0	8524.6	8080.2	7543.6	7019.6	6487.2	5868.9	5485.3	5156.3	4999.1	4982.3
10°	8553.9	8298.2	7667.3	6891.8	6070.1	5204.5	4395.4	3835.8	3431.2	3315.9	3230.0
12.5°	8522.5	8185.0	7348.7	6279.7	5106.0	3961.5	3066.5	2471.2	2148.4	2045.7	2018.5
15°	8553.9	8132.6	7080.4	5674.0	4129.2	2810.8	2058.3	1712.5	1590.9	1561.6	1559.5
17.5°	8572.8	8069.8	6776.5	5001.2	3181.8	2008.0	1576.2	1475.6	1456.7	1454.7	1458.8
20°	8570.7	7973.3	6413.9	4250.8	2366.4	1578.3	1425.3	1404.3	1400.2	1402.3	1400.2
22.5°	8556.0	7860.2	6015.6	3477.3	1787.9	1410.6	1360.3	1347.8	1345.7	1345.7	1345.7
25°	8583.3	7770.0	5577.6	2737.4	1473.5	1333.1	1301.6	1291.2	1289.1	1289.1	1284.9
27.5°	8681.8	7719.7	5097.6	2106.5	1331.0	1263.9	1238.8	1236.7	1230.4	1228.3	1232.5
30°	8841.1	7719.7	4571.5	1639.1	1245.0	1192.6	1173.8	1169.6	1167.5	1165.4	1167.5
32.5°	9122.0	7778.4	3997.1	1362.4	1163.3	1113.0	1100.4	1106.7	1100.4	1100.4	1100.4
35°	9629.2	7954.5	3395.6	1188.5	1077.4	1035.4	1022.9	1031.3	1027.1	1027.1	1025.0
37.5°	10369.1	8281.5	2789.8	1083.7	1001.9	957.9	941.1	953.7	949.5	949.5	947.4
40°	11270.4	8757.3	2213.4	1004.0	928.5	882.4	867.8	874.0	863.6	863.6	867.8
42.5°	12383.4	9360.9	1710.4	926.4	855.2	811.2	802.8	796.5	777.6	767.2	769.2
45°	13620.1	9989.7	1333.1	851.0	786.0	750.4	737.8	721.0	689.6	668.6	670.7
47.5°	14724.7	10473.9	1083.7	777.6	723.1	695.9	677.0	645.6	599.5	574.3	576.4
50°	15305.3	10547.3	922.3	704.3	664.4	637.2	609.9	561.7	507.2	480.0	477.9
52.5°	15454.1	10203.5	802.8	637.2	605.8	574.3	538.7	473.7	412.9	383.6	379.4
55°	15508.6	9679.5	695.9	574.3	542.9	507.2	461.1	387.8	331.2	301.8	299.7
57.5°	15328.3	8897.7	612.0	517.7	480.0	436.0	379.4	310.2	255.7	232.7	232.7
60°	14928.0	7839.2	547.1	456.9	415.0	364.7	306.0	241.0	190.7	171.9	171.9
62.5°	14129.4	6468.4	486.3	394.1	354.2	301.8	247.3	182.4	134.1	123.7	125.8
65°	12622.4	4906.8	425.5	337.5	301.8	249.4	192.8	130.0	90.1	90.1	94.3
67.5°	10293.7	3408.2	362.6	287.2	259.9	203.3	146.7	90.1	62.9	71.3	79.6
70°	6814.2	1911.6	310.2	236.9	222.2	161.4	109.0	60.8	50.3	67.1	81.7
72.5°	2571.8	744.1	259.9	190.7	192.8	123.7	77.6	46.1	46.1	73.4	96.4
75°	716.8	364.7	186.5	140.4	150.9	90.1	56.6	39.8	44.0	83.8	113.2
77.5°	421.3	268.3	121.6	81.7	102.7	62.9	37.7	31.4	37.7	71.3	109.0
80°	339.6	142.5	71.3	41.9	56.6	35.6	25.2	18.9	10.5	27.2	56.6
82.5°	339.6	85.9	33.5	29.3	29.3	18.9	12.6	8.4	2.1	0.0	14.7
85°	228.5	35.6	21.0	18.9	14.7	6.3	4.2	2.1	0.0	0.0	0.0
87.5°	37.7	14.7	8.4	4.2	2.1	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)