

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: P653367

Luminaire Tested: **GLAN-SA5D-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-840-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24304.9 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

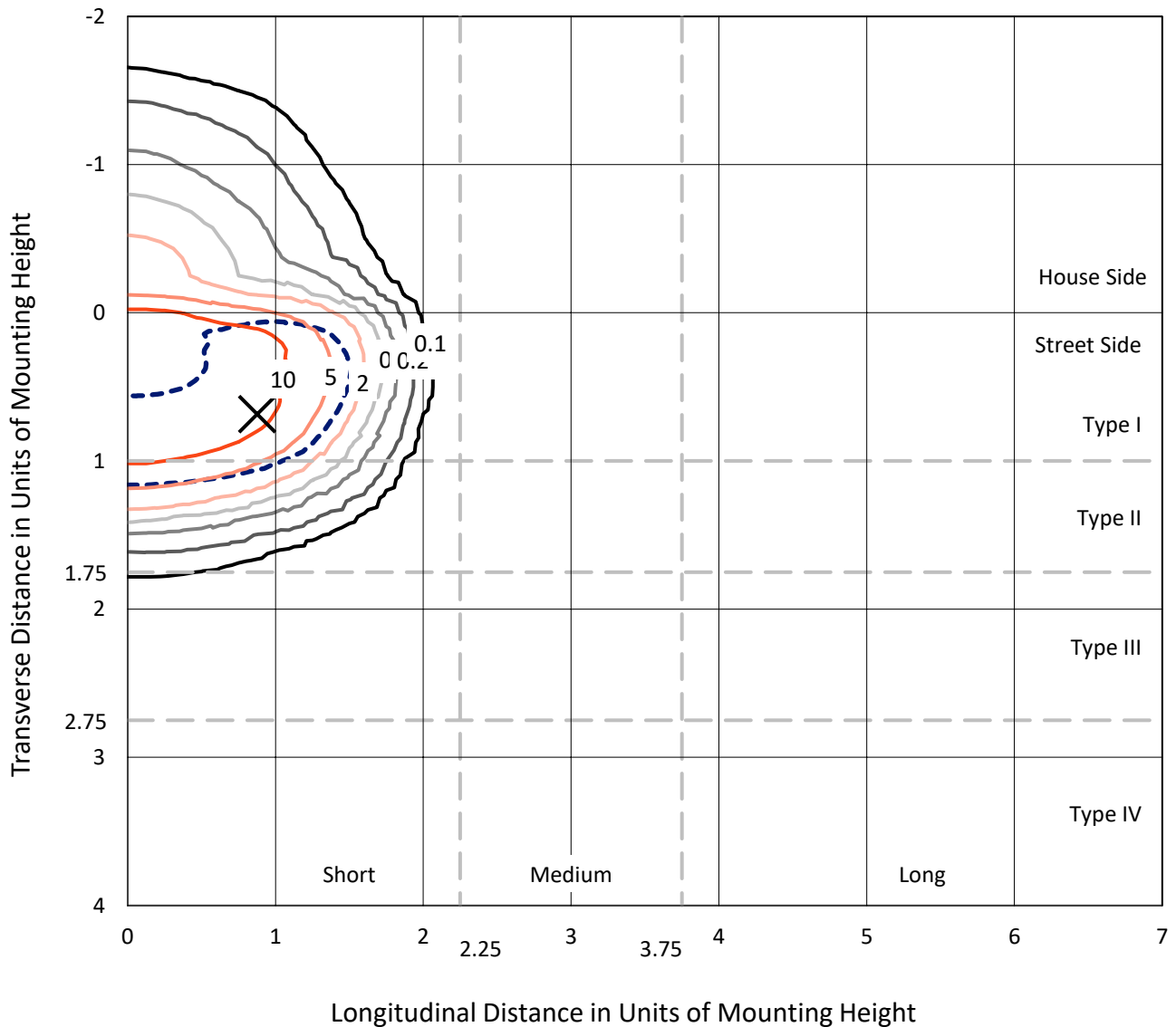
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

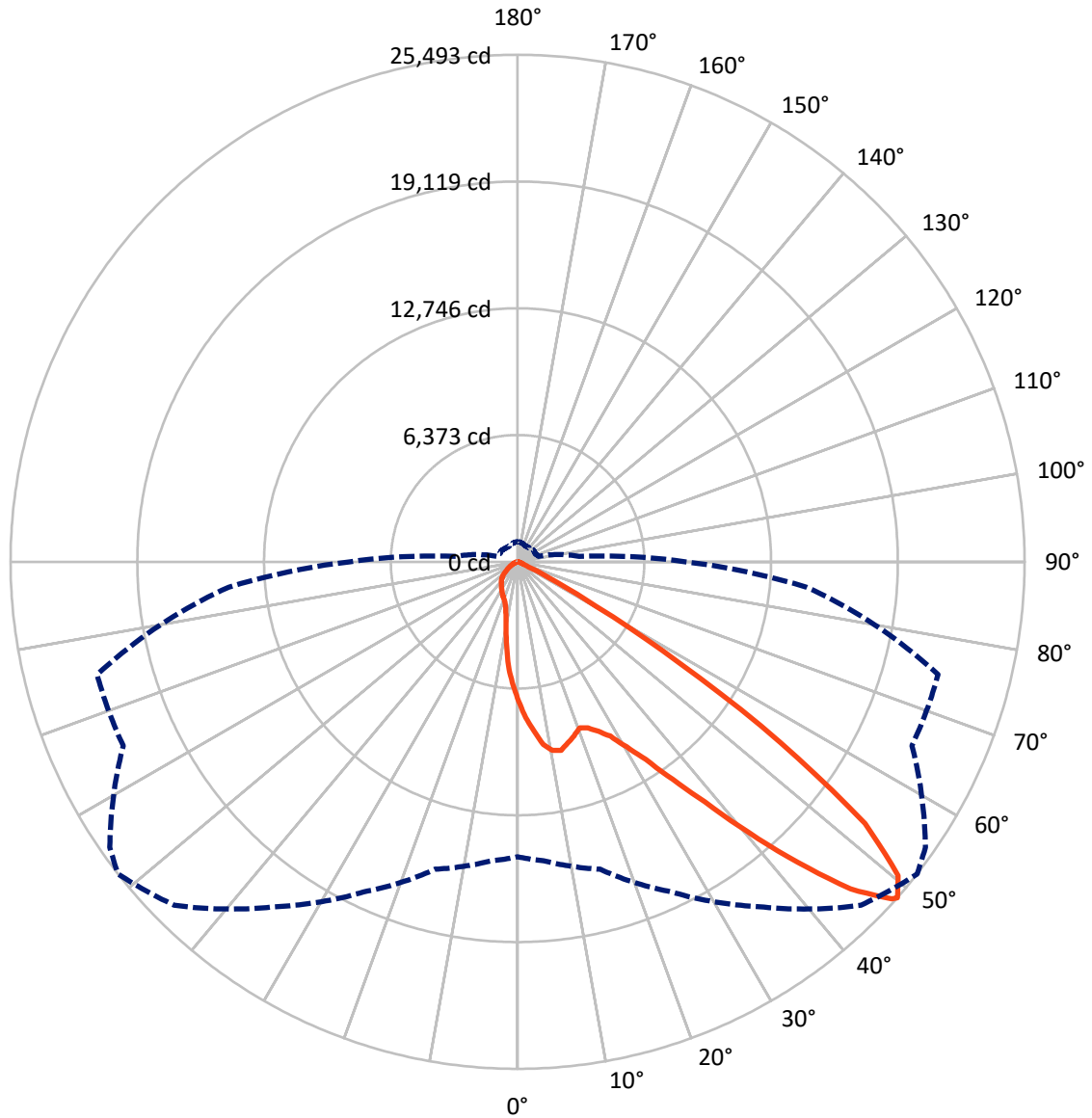
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2959.3	0.0	2959.3
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	21345.6	0.0	21345.6
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	24304.9	0.0	24304.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	642.4	2.6
10°-20°	1678.9	6.9
20°-30°	2866.5	11.8
30°-40°	5278.8	21.7
40°-50°	8197.9	33.7
50°-60°	4933.7	20.3
60°-70°	570.6	2.3
70°-80°	110.5	0.5
80°-90°	25.5	0.1
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°	24304.9	100.0
0°-180°	24304.9	100.0

**Coefficient of Utilization**



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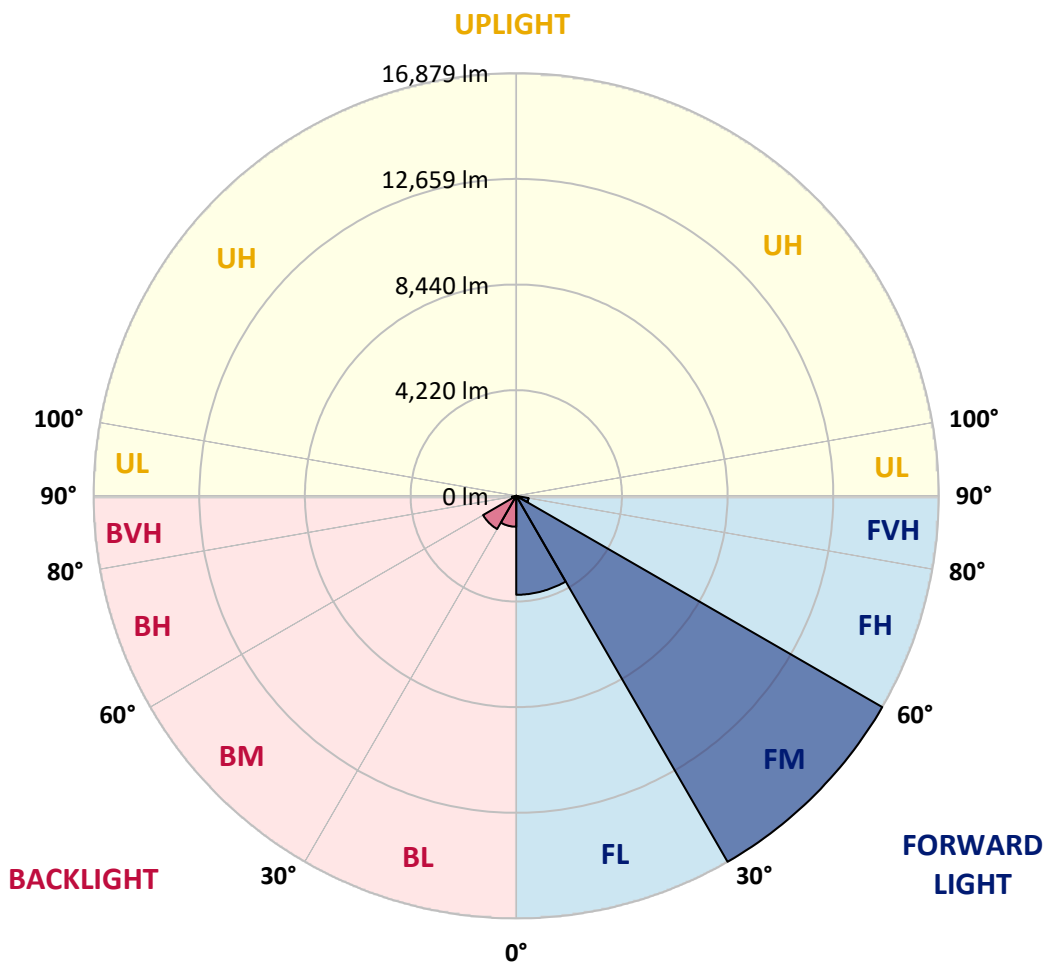
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3951.7	16.3			
FM (30°-60°)	16879.3	69.4			
FH (60°-80°)	502.5	2.1			G0/660
FVH (80°-90°)	12.2	0.1			G1/100
BL (0°-30°)	1236.2	5.1	B3/2500		
BM (30°-60°)	1531.1	6.3	B2/2500		
BH (60°-80°)	178.6	0.7	B1/500		G1/500
BVH (80°-90°)	13.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7018.8	7018.8	7018.8	7018.8	7018.8	7018.8	7018.8	7018.8	7018.8	7018.8	7018.8
2.5°	8507.0	8312.1	8329.8	8202.3	8127.8	8007.4	7844.4	7812.5	7635.4	7394.4	7149.9
5°	9272.3	9226.2	9286.4	9102.2	9109.3	8910.9	8528.2	8535.3	8127.8	7734.6	7355.5
7.5°	9321.9	9215.6	9275.8	9438.8	9534.4	9499.0	9282.9	9095.1	8708.9	8131.4	7578.7
10°	8347.5	8549.4	8613.3	8882.5	9265.1	9669.1	9644.3	9654.9	9332.5	8577.8	7770.0
12.5°	7762.9	7628.3	7844.4	8007.4	8584.9	9367.9	9725.7	9803.7	9828.5	9010.1	7961.3
15°	7497.2	7497.2	7532.6	7578.7	7996.7	8719.6	9449.4	9676.1	10211.2	9577.0	8262.5
17.5°	7663.7	7656.6	7706.3	7610.5	7766.5	8322.7	9194.3	9452.9	10639.9	10133.2	8499.9
20°	8170.3	8195.1	8163.3	7886.9	7897.5	8315.6	8910.9	9318.3	10930.4	10615.1	8815.2
22.5°	8875.4	8889.6	8708.9	8407.7	8319.2	8524.6	9073.8	9385.6	11164.3	11192.6	8910.9
25°	9690.3	9633.7	9598.2	9173.0	8903.8	9080.9	9442.3	9623.1	11309.5	11688.6	9183.6
27.5°	10820.6	10707.2	10491.1	10111.9	9913.5	9662.0	9920.6	10218.2	11724.0	12383.1	9481.3
30°	12489.4	12390.2	11968.5	11479.6	10958.7	10710.7	10792.2	10955.2	12471.7	13187.4	9874.6
32.5°	15001.4	14792.3	14183.0	13251.1	12542.5	11858.7	11837.4	12011.1	13141.3	14299.9	10342.3
35°	17768.6	17704.8	16808.4	15848.2	14477.1	13421.2	13438.9	13531.0	14423.9	15759.7	10955.2
37.5°	19607.4	19958.2	19387.7	18356.8	17205.3	15695.8	15313.2	15345.1	16184.8	17488.7	12060.7
40°	21028.2	20730.6	20797.9	20557.0	19770.4	18742.9	17896.1	17729.6	18222.1	19402.0	13159.0
42.5°	20408.2	20422.3	20836.9	21407.3	21602.2	21527.7	20663.3	20347.9	19965.3	20968.0	14204.2
45°	18657.9	19022.8	19561.4	21070.8	22395.8	23639.5	23469.4	22945.0	21169.9	22208.0	14806.6
47.5°	15866.0	15851.8	16734.0	18696.9	21641.2	24553.6	25326.0	24957.5	22023.9	22069.9	14682.5
48°	14834.9	15090.0	16000.6	18310.7	21162.8	24418.9	25492.5	25028.3	21878.5	21885.6	14576.2
50°	10965.9	10919.8	12053.5	14888.1	18902.4	22945.0	24791.0	25152.4	21875.0	20953.8	13832.2
52.5°	5793.0	5991.4	6816.9	9360.8	13364.5	18778.4	21867.9	22431.2	21102.6	19430.3	12762.2
55°	2462.4	2225.0	2859.2	4226.9	7518.5	12546.0	16043.1	17297.4	17843.0	17194.6	11164.3
57.5°	878.7	960.2	1105.4	1590.8	3160.4	6866.5	9566.3	10540.7	12361.9	12616.9	7607.0
60°	563.4	574.0	620.1	729.9	1186.9	2646.7	4538.7	5314.6	6140.1	6338.6	3550.2
62.5°	435.8	439.3	460.6	478.3	563.4	1027.5	1704.2	2019.6	2097.5	1803.4	931.8
65°	364.9	368.4	375.6	375.6	400.4	481.9	595.3	655.5	637.7	630.7	527.9
67.5°	279.9	286.9	301.2	301.2	315.4	294.1	329.5	350.8	396.8	481.9	449.9
70°	219.7	223.2	233.9	240.9	240.9	212.6	237.4	258.6	290.6	357.8	354.3
72.5°	170.1	177.1	184.3	184.3	173.6	145.2	170.1	187.8	209.1	248.0	240.9
75°	131.1	131.1	134.6	109.8	85.0	74.4	102.8	124.0	155.9	163.0	134.6
77.5°	35.4	38.9	35.4	31.9	35.4	53.2	67.3	78.0	99.2	99.2	88.6
80°	0.0	3.5	10.6	21.3	35.4	49.6	60.2	67.3	78.0	85.0	81.5
82.5°	0.0	3.5	10.6	21.3	31.9	38.9	53.2	56.7	63.7	74.4	74.4
85°	0.0	3.5	7.1	14.2	21.3	24.8	24.8	21.3	21.3	17.7	14.2
87.5°	0.0	0.0	3.5	7.1	7.1	10.6	10.6	10.6	10.6	10.6	10.6
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°	7018.8	7018.8	7018.8	7018.8	7018.8	7018.8	7018.8	7018.8	7018.8	7018.8	7018.8
2.5°	7054.3	6944.5	6778.0	6515.7	6264.2	6101.2	5945.3	5771.7	5676.0	5668.9	5615.8
5°	7139.3	6891.3	6494.5	6044.5	5562.6	5148.1	4730.0	4457.2	4212.7	4078.1	4053.3
7.5°	7185.3	6863.0	6221.6	5467.0	4645.0	3968.3	3500.6	3156.9	3022.2	2923.1	2919.5
10°	7281.0	6813.4	5814.2	4701.7	3684.8	3001.0	2678.6	2522.7	2448.2	2419.9	2377.4
12.5°	7351.9	6721.3	5396.1	3915.1	2912.4	2487.3	2345.5	2310.1	2313.7	2327.8	2310.1
15°	7451.1	6639.8	4832.8	3213.5	2444.7	2239.2	2239.2	2246.3	2295.9	2303.0	2299.5
17.5°	7444.0	6480.3	4251.7	2646.7	2161.3	2132.9	2143.5	2210.9	2242.8	2253.4	2228.6
20°	7529.1	6331.5	3652.9	2260.5	2001.8	2044.4	2115.2	2132.9	2171.9	2179.0	2150.7
22.5°	7504.2	5959.5	3096.6	1955.7	1881.4	1962.9	2033.7	2055.0	2044.4	2023.1	2019.6
25°	7458.2	5640.6	2586.4	1753.8	1792.8	1881.4	1948.7	1909.7	1888.5	1892.0	1895.5
27.5°	7376.7	5236.7	2164.8	1612.1	1672.3	1803.4	1799.9	1785.7	1807.0	1789.2	1807.0
30°	7362.5	4832.8	1817.6	1484.5	1583.8	1679.4	1686.5	1711.4	1736.1	1704.2	1736.1
32.5°	7383.8	4389.9	1569.6	1406.6	1530.6	1534.2	1612.1	1636.9	1619.2	1548.4	1555.4
35°	7546.8	4049.8	1388.9	1364.1	1445.6	1449.1	1523.6	1491.6	1413.7	1371.2	1396.0
37.5°	7890.4	3766.3	1303.9	1325.1	1332.2	1378.2	1381.8	1318.0	1325.1	1321.5	1335.8
40°	8329.8	3550.2	1243.6	1289.7	1282.6	1314.5	1186.9	1222.4	1254.3	1264.9	1271.9
42.5°	8630.9	3394.3	1204.6	1233.0	1218.9	1162.1	1091.3	1126.7	1151.5	1190.4	1197.6
45°	8765.6	3270.2	1158.6	1133.8	1133.8	1031.1	1002.7	1009.8	1066.5	1109.0	1101.9
47.5°	8545.9	3149.8	1077.1	1002.7	1027.5	942.4	910.6	910.6	970.8	1023.9	1013.3
48°	8460.9	3100.2	1080.6	974.4	992.0	928.3	896.4	889.3	956.6	1006.3	1006.3
50°	8039.3	2916.0	988.5	896.4	860.9	853.9	832.6	839.7	882.2	928.3	928.3
52.5°	7217.3	2519.1	836.2	768.8	705.1	747.6	758.2	744.0	765.3	807.9	804.2
55°	6023.2	1934.6	669.6	637.7	588.1	634.2	655.5	637.7	616.5	648.4	648.4
57.5°	3858.4	1041.7	535.0	542.1	492.5	538.6	556.2	513.8	474.7	499.6	496.0
60°	1739.7	623.6	439.3	428.7	396.8	449.9	478.3	428.7	375.6	393.3	411.0
62.5°	651.9	442.9	333.0	326.0	318.9	368.4	382.7	343.7	290.6	301.2	304.7
65°	478.3	389.7	265.8	240.9	255.1	290.6	283.4	244.5	209.1	209.1	216.1
67.5°	407.5	340.1	216.1	187.8	187.8	191.3	177.1	155.9	145.2	152.4	159.5
70°	318.9	269.3	170.1	145.2	131.1	116.9	102.8	99.2	88.6	99.2	95.6
72.5°	205.5	180.7	131.1	109.8	99.2	81.5	67.3	63.7	53.2	49.6	49.6
75°	109.8	109.8	102.8	88.6	78.0	63.7	53.2	42.6	28.3	21.3	21.3
77.5°	78.0	85.0	92.1	85.0	70.9	53.2	42.6	28.3	14.2	7.1	7.1
80°	74.4	85.0	92.1	81.5	70.9	53.2	38.9	21.3	10.6	3.5	3.5
82.5°	67.3	78.0	85.0	74.4	63.7	46.1	35.4	21.3	10.6	3.5	3.5
85°	14.2	17.7	21.3	21.3	24.8	31.9	24.8	17.7	7.1	3.5	3.5
87.5°	10.6	10.6	10.6	10.6	10.6	10.6	7.1	7.1	3.5	3.5	3.5
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)