

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: McGRAW-EDISON

Report Number: P323984

Luminaire Tested: **GLEON-SA0D-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323984
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: McGRAW-EDISON
Catalog Number: GLEON-SA0D-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 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: 45821 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

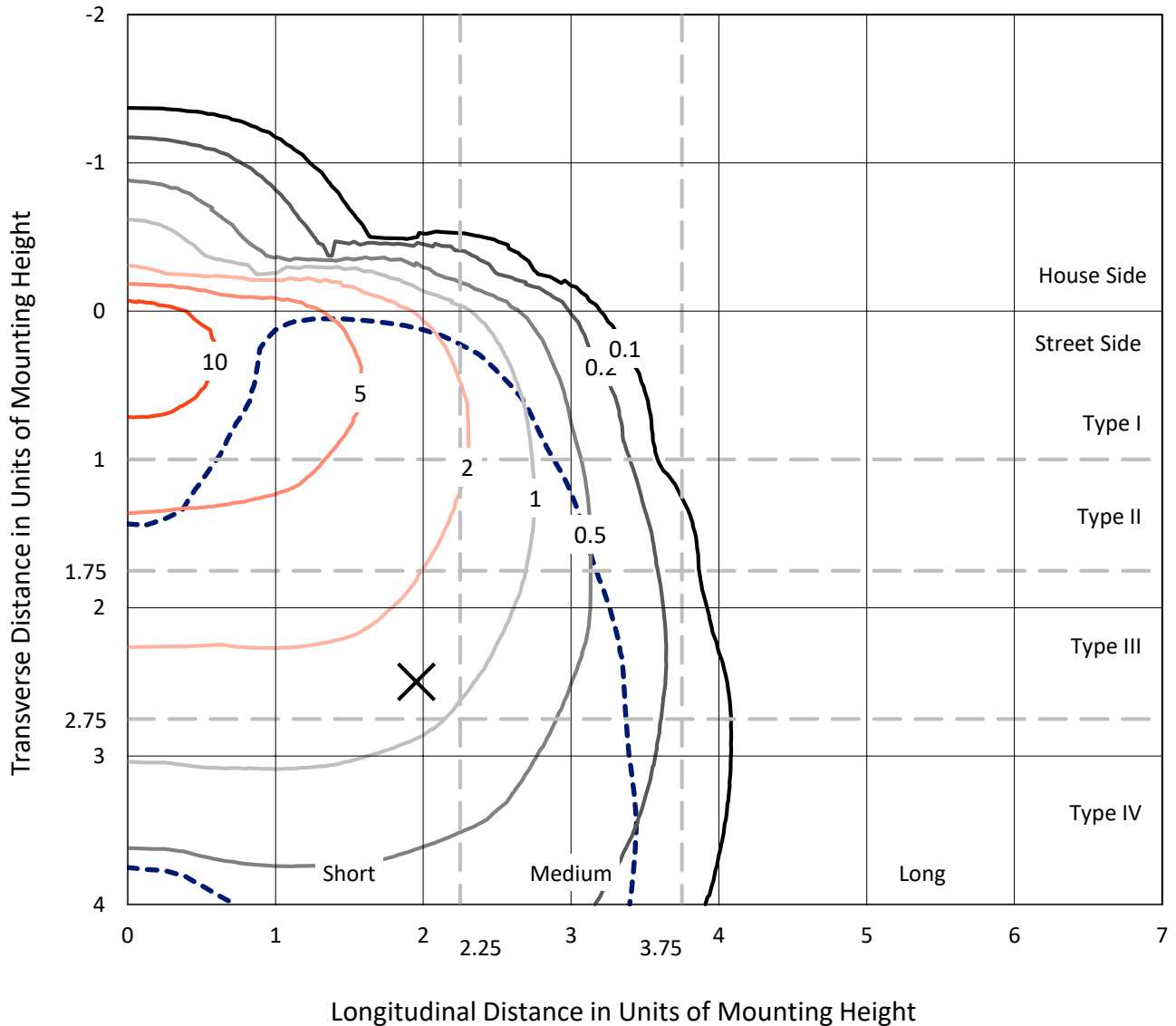
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

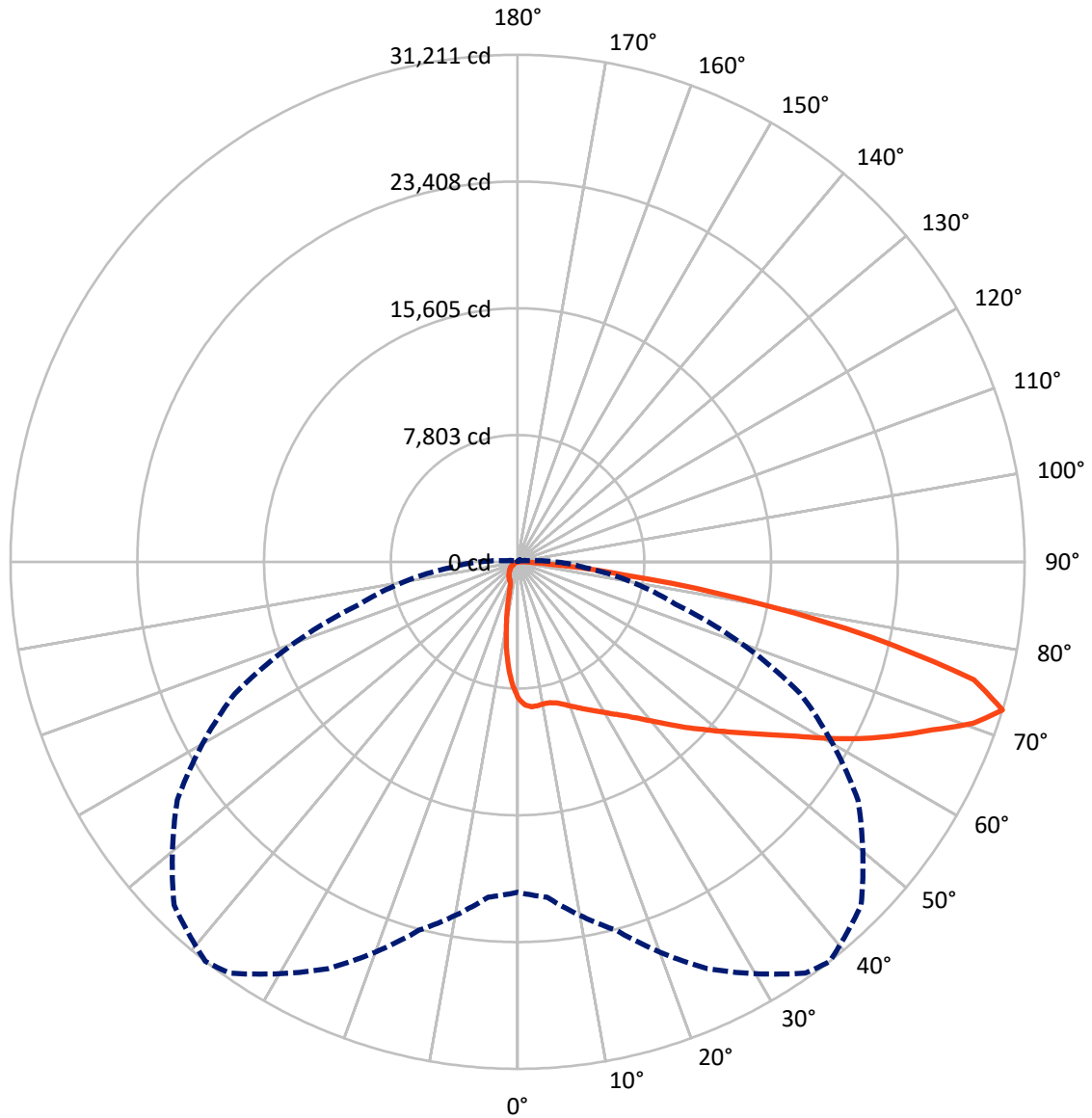
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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
House Side	Lumens	3856.0	0.0	3856.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	41965.0	0.0	41965.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	45821.0	0.0	45821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.1	1.6
10°-20°	1755.9	3.8
20°-30°	2792.7	6.1
30°-40°	4198.5	9.2
40°-50°	6405.1	14.0
50°-60°	9052.6	19.8
60°-70°	11355.0	24.8
70°-80°	8490.4	18.5
80°-90°	1052.8	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°	45821.0	100.0
0°-180°	45821.0	100.0

Coefficient of Utilization



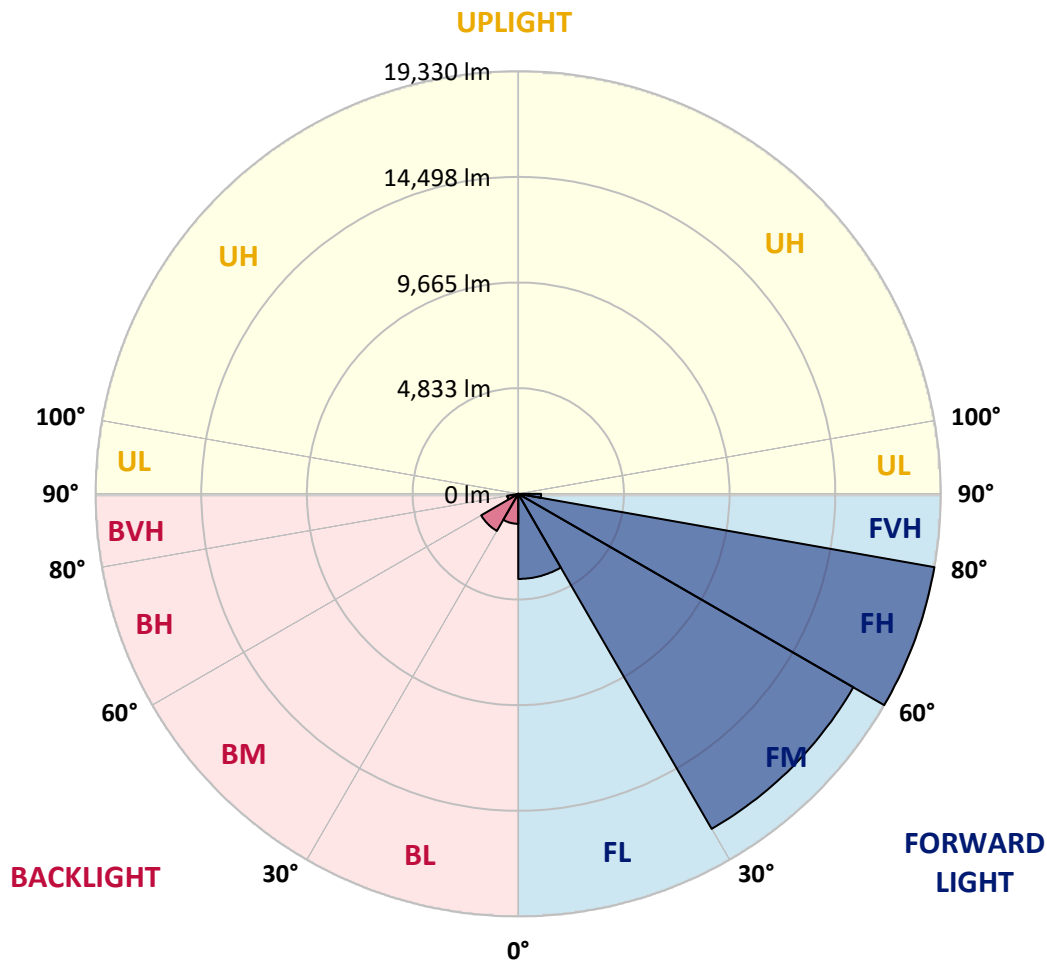
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3893.7	8.5			
FM (30°-60°)	17698.1	38.6			
FH (60°-80°)	19330.3	42.2			G5
FVH (80°-90°)	1043.0	2.3			G5
BL (0°-30°)	1373.0	3.0	B3/2500		
BM (30°-60°)	1958.1	4.3	B2/2500		
BH (60°-80°)	515.1	1.1	B2/1000		G2/1000
BVH (80°-90°)	9.8	0.0			G0/10
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°	8426.3	8426.3	8426.3	8426.3	8426.3	8426.3	8426.3	8426.3	8426.3	8426.3	8426.3
2.5°	8943.9	8945.8	8924.9	8890.7	8846.9	8824.1	8786.0	8725.1	8660.4	8544.3	8418.7
5°	9126.6	9126.6	9100.0	9054.3	8983.9	8963.0	8890.7	8793.6	8660.4	8472.0	8260.8
7.5°	9107.6	9111.4	9075.2	9027.7	8957.3	8938.2	8850.7	8742.2	8576.7	8348.3	8078.1
10°	9008.6	9018.2	8989.6	8966.8	8902.1	8881.1	8799.3	8690.8	8525.3	8281.7	7971.5
12.5°	8907.8	8917.3	8926.8	8947.7	8907.8	8900.2	8835.5	8744.1	8586.2	8333.1	7982.9
15°	8843.1	8862.1	8930.6	9012.4	9022.0	9014.3	8972.5	8886.8	8727.0	8464.4	8064.8
17.5°	8843.1	8873.5	9016.3	9172.3	9227.5	9233.2	9197.0	9077.1	8886.8	8605.2	8140.9
20°	8917.3	8959.2	9181.8	9402.6	9493.9	9493.9	9423.5	9256.0	9033.4	8732.7	8192.3
22.5°	9107.6	9162.8	9442.5	9697.5	9794.6	9773.6	9678.5	9434.9	9185.6	8877.3	8257.0
25°	9482.5	9524.3	9815.5	10072.4	10131.4	10083.8	9963.9	9651.8	9379.7	9073.3	8375.0
27.5°	9965.8	9971.5	10272.2	10489.1	10453.0	10420.6	10270.3	9924.0	9659.5	9353.1	8578.6
30°	10496.8	10496.8	10761.3	10926.8	10816.5	10789.8	10639.5	10253.2	10017.2	9733.7	8867.8
32.5°	11010.6	11033.4	11248.4	11353.1	11229.4	11202.8	11056.2	10669.9	10493.0	10314.1	9318.8
35°	11507.2	11524.4	11728.0	11785.1	11667.1	11674.7	11570.0	11242.7	11176.1	11153.3	9998.2
37.5°	11988.7	11992.5	12199.9	12236.1	12177.1	12241.8	12251.3	11962.0	12085.7	12270.3	10955.4
40°	12428.3	12432.1	12637.6	12730.8	12831.7	12915.4	12989.6	12835.5	13244.6	13672.8	12095.2
42.5°	12780.3	12820.3	13081.0	13258.0	13524.4	13684.2	13885.9	13878.3	14624.3	15267.5	13473.0
45°	13090.5	13159.0	13522.5	13832.7	14289.4	14544.4	14860.3	15107.6	16177.1	17043.0	14867.9
47.5°	13499.6	13564.3	13979.2	14487.3	15096.2	15431.1	15954.5	16489.2	17884.1	18786.1	16230.4
50°	14076.2	14047.7	14456.8	15185.7	15967.8	16407.4	17153.3	17954.5	19577.7	20304.6	17031.5
52.5°	14690.9	14679.5	14982.0	15944.9	16995.4	17509.2	18494.9	19469.2	21197.1	21351.3	17398.8
55°	15452.1	15370.3	15625.2	16810.8	18215.2	18767.0	19927.9	20968.8	22487.3	21941.2	17583.4
57.5°	16249.4	16114.3	16357.9	17775.6	19591.0	20243.7	21514.9	22430.3	23345.6	22344.6	17581.5
60°	17073.4	16913.6	17202.8	18982.1	21299.9	22055.4	23235.2	23417.9	24146.7	22548.2	17452.1
62.5°	17762.3	17667.1	18097.2	20272.3	23208.6	23950.7	24534.9	24316.1	24822.3	22706.2	17149.5
65°	18491.1	18496.8	19191.4	21777.5	25237.1	25737.6	25787.1	25480.7	25387.5	22673.8	16125.7
67.5°	19476.9	19568.2	20727.1	23821.3	27210.5	27596.8	27593.0	26742.4	25800.4	21387.4	13855.5
70°	20519.7	20734.7	22496.9	26160.1	29364.7	29756.7	29555.0	27545.4	24293.3	17294.1	9806.0
72.5°	20344.6	20717.6	23480.7	27634.9	30911.8	31210.5	29899.4	25572.0	19200.9	10051.5	4175.1
75°	15695.7	16127.6	21530.2	26173.4	29288.5	29020.2	25690.0	19899.3	10493.0	2805.0	940.1
77.5°	8291.2	8521.5	14222.8	19939.3	22837.5	22276.1	18097.2	11039.1	3198.9	694.6	422.5
80°	4342.6	4395.9	6198.0	11313.1	14095.3	14099.1	10725.1	4848.8	1318.8	355.9	283.5
82.5°	2325.4	2371.1	3275.0	5227.4	7385.4	6694.6	4106.6	2668.0	766.9	201.7	272.1
85°	559.5	569.0	1857.3	2388.2	2903.9	2074.2	1219.8	2239.8	207.4	118.0	220.7
87.5°	215.0	218.8	688.9	1033.3	740.3	479.5	570.9	835.4	26.6	45.7	34.3
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°	8426.3	8426.3	8426.3	8426.3	8426.3	8426.3	8426.3	8426.3	8426.3	8426.3	8426.3
2.5°	8342.6	8293.1	8171.3	8017.2	7880.2	7781.2	7632.8	7535.7	7471.0	7469.1	7444.4
5°	8131.4	8030.5	7767.9	7455.8	7172.3	6917.3	6616.6	6378.7	6201.8	6173.2	6112.3
7.5°	7904.9	7739.4	7335.9	6848.8	6373.0	5889.7	5328.3	4980.1	4681.3	4538.6	4523.3
10°	7766.0	7533.8	6961.0	6257.0	5511.0	4725.1	3990.5	3482.4	3115.2	3010.5	2932.5
12.5°	7737.5	7431.1	6671.8	5701.3	4635.6	3596.6	2784.0	2243.6	1950.5	1857.3	1832.6
15°	7766.0	7383.5	6428.2	5151.3	3748.8	2551.9	1868.7	1554.7	1444.4	1417.7	1415.8
17.5°	7783.1	7326.4	6152.3	4540.5	2888.7	1823.0	1431.0	1339.7	1322.6	1320.7	1324.5
20°	7781.2	7238.9	5823.1	3859.2	2148.4	1432.9	1294.0	1275.0	1271.2	1273.1	1271.2
22.5°	7767.9	7136.1	5461.5	3157.0	1623.2	1280.7	1235.0	1223.6	1221.7	1221.7	1221.7
25°	7792.6	7054.3	5063.8	2485.3	1337.8	1210.3	1181.7	1172.2	1170.3	1170.3	1166.5
27.5°	7882.1	7008.6	4628.0	1912.5	1208.4	1147.5	1124.7	1122.7	1117.0	1115.1	1118.9
30°	8026.7	7008.6	4150.4	1488.1	1130.4	1082.8	1065.7	1061.9	1060.0	1058.0	1060.0
32.5°	8281.7	7061.9	3629.0	1236.9	1056.1	1010.5	999.1	1004.8	999.1	999.1	999.1
35°	8742.2	7221.8	3082.8	1079.0	978.1	940.1	928.6	936.3	932.5	932.5	930.6
37.5°	9414.0	7518.6	2532.8	983.8	909.6	869.7	854.4	865.8	862.0	862.0	860.1
40°	10232.2	7950.6	2009.5	911.5	843.0	801.1	787.8	793.5	784.0	784.0	787.8
42.5°	11242.7	8498.6	1552.8	841.1	776.4	736.4	728.8	723.1	706.0	696.5	698.4
45°	12365.5	9069.5	1210.3	772.6	713.6	681.3	669.8	654.6	626.1	607.0	608.9
47.5°	13368.3	9509.1	983.8	706.0	656.5	631.8	614.7	586.1	544.2	521.4	523.3
50°	13895.5	9575.7	837.3	639.4	603.2	578.5	553.8	510.0	460.5	435.8	433.9
52.5°	14030.6	9263.6	728.8	578.5	550.0	521.4	489.1	430.1	374.9	348.2	344.4
55°	14080.0	8787.9	631.8	521.4	492.9	460.5	418.7	352.0	300.7	274.0	272.1
57.5°	13916.4	8078.1	555.7	470.0	435.8	395.8	344.4	281.6	232.2	211.2	211.2
60°	13552.9	7117.1	496.7	414.8	376.8	331.1	277.8	218.8	173.2	156.0	156.0
62.5°	12827.9	5872.6	441.5	357.8	321.6	274.0	224.5	165.6	121.8	112.3	114.2
65°	11459.7	4454.8	386.3	306.4	274.0	226.5	175.1	118.0	81.8	81.8	85.6
67.5°	9345.5	3094.2	329.2	260.7	236.0	184.6	133.2	81.8	57.1	64.7	72.3
70°	6186.5	1735.5	281.6	215.0	201.7	146.5	99.0	55.2	45.7	60.9	74.2
72.5°	2334.9	675.6	236.0	173.2	175.1	112.3	70.4	41.9	41.9	66.6	87.5
75°	650.8	331.1	169.4	127.5	137.0	81.8	51.4	36.2	40.0	76.1	102.8
77.5°	382.5	243.6	110.4	74.2	93.2	57.1	34.3	28.5	34.3	64.7	99.0
80°	308.3	129.4	64.7	38.1	51.4	32.4	22.8	17.1	9.5	24.7	51.4
82.5°	308.3	78.0	30.4	26.6	26.6	17.1	11.4	7.6	1.9	0.0	13.3
85°	207.4	32.4	19.0	17.1	13.3	5.7	3.8	1.9	0.0	0.0	0.0
87.5°	34.3	13.3	7.6	3.8	1.9	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)