

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: P456461

Luminaire Tested: **GALN-SA7D-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44980 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

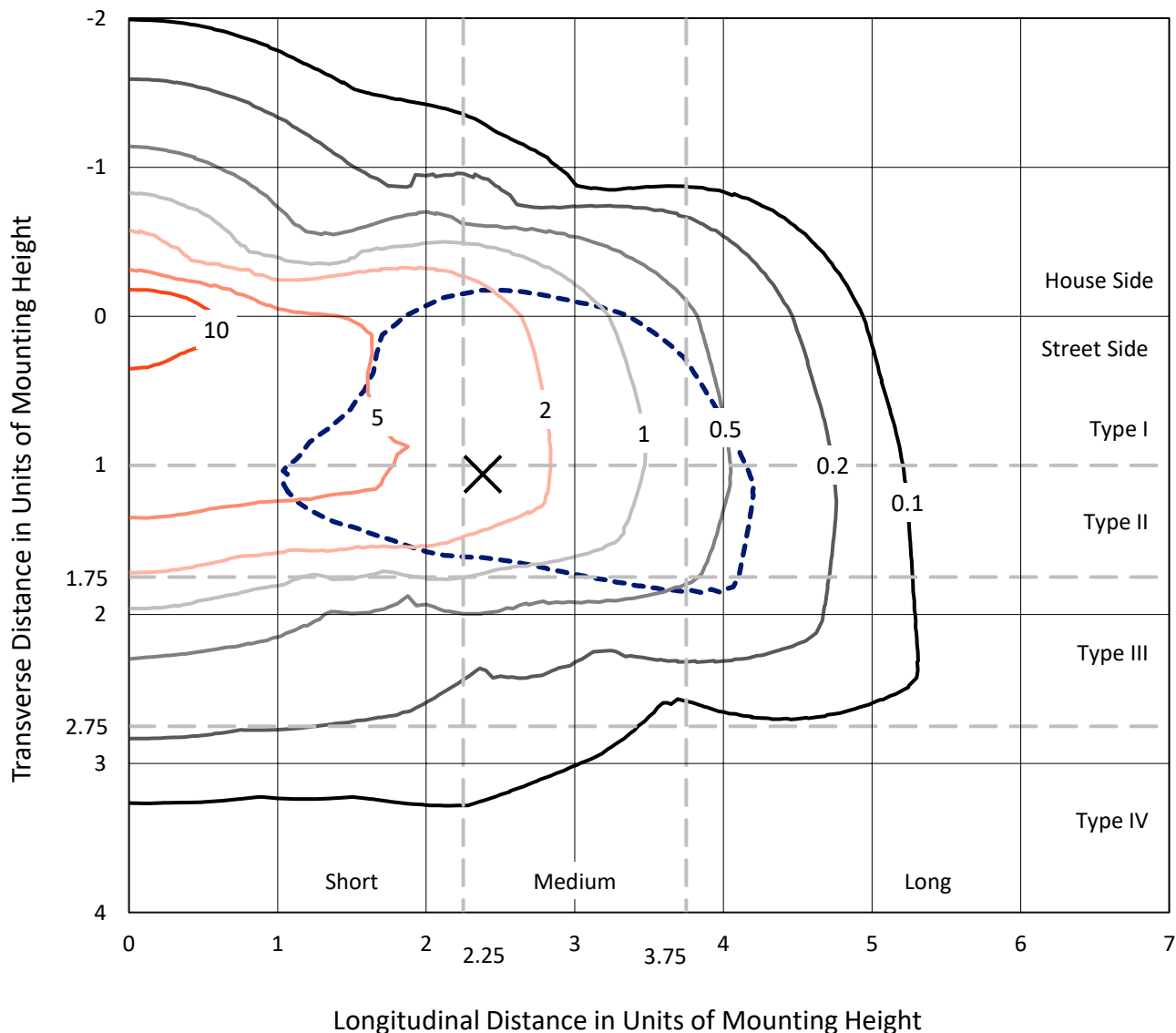
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

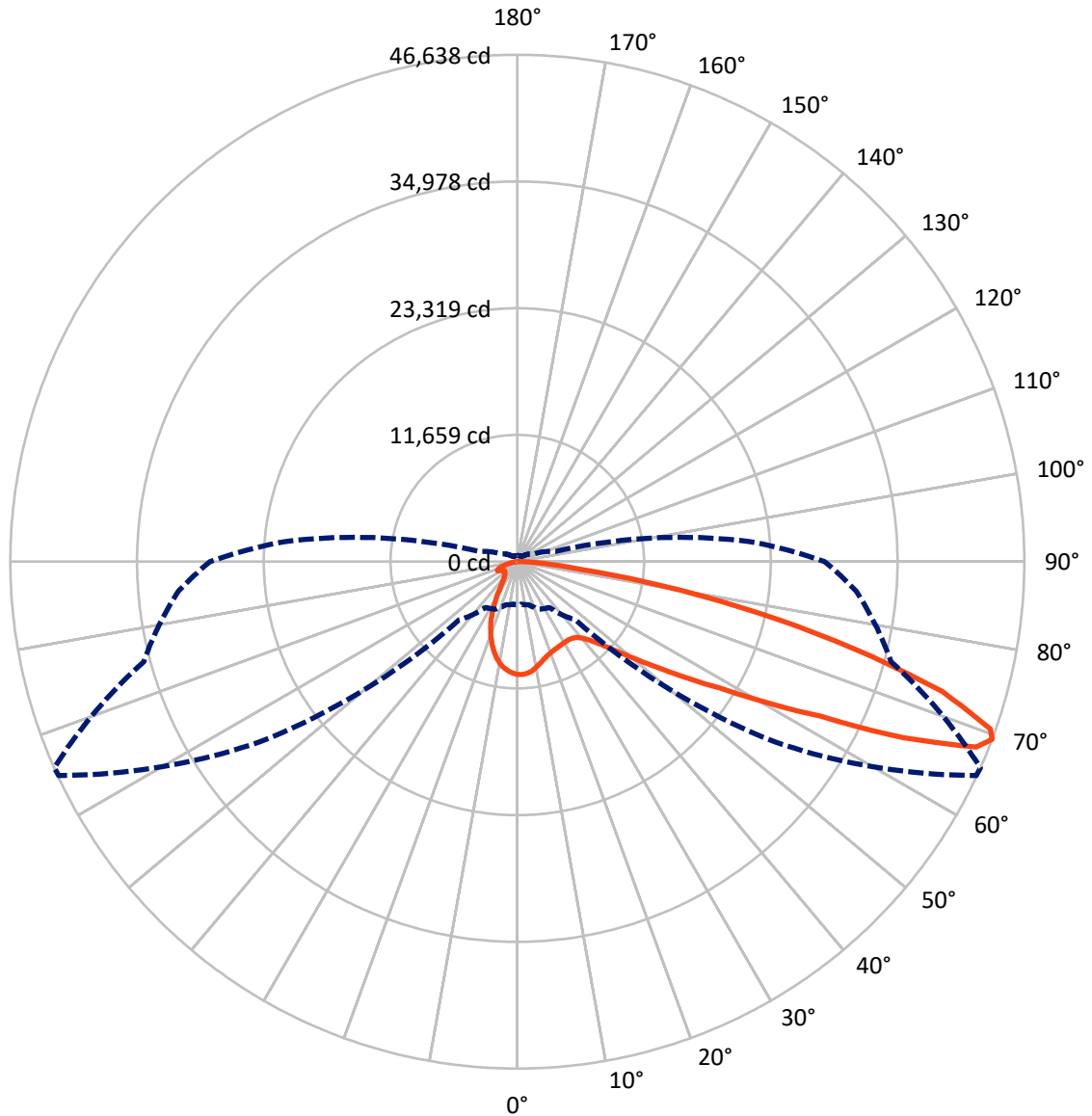
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8459.0	0.0	8459.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	36521.0	0.0	36521.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	44980.0	0.0	44980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	902.0	2.0
10°-20°	2139.5	4.8
20°-30°	2912.6	6.5
30°-40°	3914.0	8.7
40°-50°	5844.2	13.0
50°-60°	9296.1	20.7
60°-70°	11433.7	25.4
70°-80°	7439.3	16.5
80°-90°	1098.6	2.4
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°	44980.0	100.0
0°-180°	44980.0	100.0

Coefficient of Utilization



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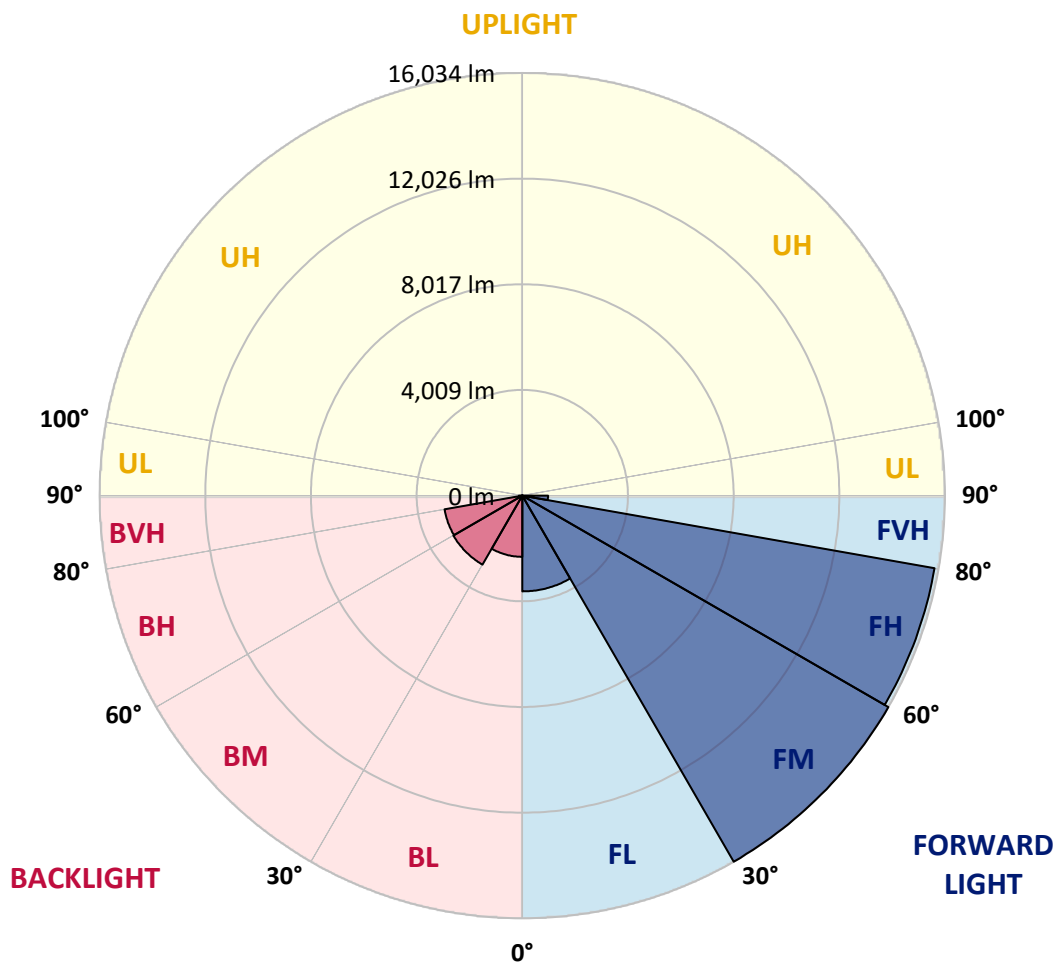
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3632.1	8.1			
FM	(30°-60°)	16034.0	35.6			
FH	(60°-80°)	15878.2	35.3			G5
FVH	(80°-90°)	976.7	2.2			G5
BL	(0°-30°)	2322.0	5.2	B3/2500		
BM	(30°-60°)	3020.3	6.7	B3/5000		
BH	(60°-80°)	2994.9	6.7	B4/5000		G4/5000
BVH	(80°-90°)	121.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10387.1	10387.1	10387.1	10387.1	10387.1	10387.1	10387.1	10387.1	10387.1	10387.1	10387.1
2.5°	10023.5	10063.3	10108.1	10158.0	10252.6	10304.9	10342.3	10384.6	10389.6	10412.0	10394.6
5°	9283.7	9331.0	9398.2	9492.9	9634.9	9856.6	10085.7	10272.5	10295.0	10399.6	10429.5
7.5°	8665.9	8693.3	8748.1	8900.1	9101.8	9348.4	9682.2	10060.8	10115.6	10364.7	10451.9
10°	8162.7	8190.1	8254.9	8411.8	8611.1	8920.0	9286.1	9784.3	9829.2	10257.6	10456.9
12.5°	7786.6	7811.5	7881.3	8035.7	8264.9	8553.8	8957.3	9485.4	9550.2	10115.6	10409.6
15°	7500.2	7547.5	7604.8	7731.8	7973.4	8252.4	8643.5	9211.4	9263.7	9966.2	10377.2
17.5°	7378.1	7400.5	7440.4	7557.4	7734.3	8008.3	8401.9	8997.2	9059.5	9861.5	10369.7
20°	7383.1	7405.5	7413.0	7477.7	7604.8	7841.4	8230.0	8827.8	8902.5	9769.4	10382.1
22.5°	7552.5	7555.0	7527.6	7505.1	7555.0	7751.7	8107.9	8700.8	8788.0	9729.5	10392.1
25°	7814.0	7858.8	7819.0	7714.4	7622.2	7716.9	8060.6	8631.0	8713.2	9672.2	10379.7
27.5°	8237.5	8244.9	8212.6	8070.6	7831.4	7761.7	8040.7	8578.7	8648.5	9629.9	10317.4
30°	8805.4	8783.0	8753.1	8596.2	8220.0	7933.6	8083.0	8531.4	8603.6	9567.6	10242.7
32.5°	9380.8	9450.5	9423.1	9238.8	8750.6	8267.4	8220.0	8526.4	8586.2	9520.3	10160.5
35°	9991.1	10023.5	10153.0	10058.3	9557.7	8807.9	8476.6	8603.6	8651.0	9522.8	10103.2
37.5°	10469.3	10556.5	10860.4	10942.6	10471.8	9522.8	8892.6	8822.8	8842.8	9644.8	10125.6
40°	11047.2	11196.7	11587.8	11924.0	11615.2	10451.9	9600.0	9228.9	9253.8	9938.8	10272.5
42.5°	11779.6	11884.2	12409.8	12865.6	12815.8	11679.9	10456.9	9893.9	9906.4	10524.1	10683.6
45°	12636.4	12785.9	13376.2	14061.2	14178.3	13069.9	11694.9	10900.3	10892.8	11433.3	11450.8
47.5°	13732.4	13824.6	14410.0	15157.2	15630.5	14816.0	13196.9	12345.0	12265.3	12758.5	12616.5
50°	14741.3	14885.7	15329.1	16146.1	17324.3	16861.0	15172.2	14218.2	14031.3	14492.2	14253.0
52.5°	15164.7	15316.7	15690.3	16704.1	18776.5	19506.4	17680.5	16452.5	16141.2	16494.9	16407.7
55°	14429.9	14626.7	14975.4	16208.4	19414.2	22557.8	21063.2	19035.6	18808.9	18657.0	18681.9
57.5°	12454.6	12641.4	13112.2	14472.2	18652.0	24772.2	25893.1	22356.0	21870.3	21170.3	21289.9
60°	9480.4	9597.5	9841.6	11348.6	16392.7	25347.6	31378.1	26553.2	26244.3	23673.7	23758.4
62.5°	6733.0	6865.0	7034.4	7786.6	12001.2	23726.0	35672.4	32414.3	31310.9	26266.7	26184.5
65°	5467.6	5377.9	5582.1	5933.4	7041.8	18388.0	36638.9	40549.7	39030.2	29681.8	28540.9
67.5°	4496.1	4401.5	4603.2	5228.4	5355.5	10673.6	33156.6	45830.4	45526.5	33395.7	30934.7
69°	3980.5	3930.7	4107.5	4819.9	5141.3	7579.9	28884.7	46565.2	46637.5	35585.3	31303.4
70°	3586.9	3606.9	3778.7	4613.2	5044.1	6249.7	24687.5	45551.4	46164.2	36678.8	30904.8
72.5°	2640.4	2682.7	2921.8	3821.1	4951.9	5303.2	14691.4	39787.4	40871.0	36743.5	28271.9
75°	1845.8	1825.8	2037.6	2877.0	4677.9	5255.8	8628.5	30770.3	31998.3	31759.2	23755.9
77.5°	1208.1	1240.5	1409.9	2032.6	3935.7	5216.0	5624.5	21830.4	22627.5	21240.1	14051.3
80°	851.9	849.4	944.1	1387.4	2919.4	5011.7	4605.7	13759.8	13558.1	8347.1	4167.3
82.5°	488.2	523.1	632.7	976.4	1952.9	4411.4	4237.1	6581.0	6008.1	2378.8	1407.4
85°	271.5	284.0	376.1	590.3	1140.8	3322.9	3699.0	2994.1	2824.7	993.9	605.3
87.5°	87.2	94.7	156.9	298.9	518.1	1569.3	2094.9	1382.5	1275.4	358.7	244.1
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°	10387.1	10387.1	10387.1	10387.1	10387.1	10387.1	10387.1	10387.1	10387.1	10387.1	10387.1
2.5°	10402.1	10432.0	10352.3	10275.0	10205.3	10108.1	10021.0	9948.7	9898.9	9891.4	9866.5
5°	10437.0	10439.4	10287.5	10083.2	9884.0	9664.8	9438.1	9276.2	9124.2	9039.5	8997.2
7.5°	10461.9	10439.4	10165.4	9834.1	9450.5	9052.0	8653.5	8334.6	8088.0	7990.9	8028.2
10°	10451.9	10382.1	9981.1	9450.5	8892.6	8297.3	7724.3	7276.0	6865.0	6653.2	6658.2
12.5°	10397.1	10282.5	9707.1	9019.6	8200.1	7403.0	6526.2	5920.9	5445.1	5163.7	5076.5
15°	10349.8	10150.5	9385.8	8434.3	7415.5	6277.1	5208.5	4461.2	4062.7	3841.0	3838.5
17.5°	10299.9	10023.5	9034.6	7814.0	6513.8	5049.1	3928.2	3357.8	3170.9	3193.4	3156.0
20°	10247.6	9874.0	8668.4	7124.0	5415.3	3766.3	2941.8	2710.1	2762.4	2864.6	2879.5
22.5°	10187.9	9714.6	8274.8	6364.3	4259.5	2834.7	2386.3	2351.4	2485.9	2645.4	2667.8
25°	10095.7	9515.3	7779.1	5569.7	3285.5	2284.2	2089.9	2114.8	2246.8	2381.3	2396.3
27.5°	9966.2	9268.7	7278.5	4578.3	2468.5	1960.4	1910.5	1942.9	2007.7	2089.9	2109.8
30°	9791.8	8989.7	6703.1	3721.4	1977.8	1798.4	1778.5	1796.0	1833.3	1868.2	1878.2
32.5°	9617.4	8720.7	6122.7	2849.6	1763.6	1691.3	1671.4	1671.4	1671.4	1676.4	1678.9
35°	9455.5	8466.6	5499.9	2219.4	1651.5	1606.6	1579.2	1549.4	1544.4	1526.9	1526.9
37.5°	9365.9	8235.0	4837.4	1858.2	1569.3	1536.9	1499.5	1449.7	1422.3	1424.8	1419.8
40°	9383.3	8083.0	4234.6	1654.0	1502.0	1467.2	1409.9	1352.6	1335.1	1335.1	1330.2
42.5°	9580.1	8033.2	3656.7	1546.9	1437.3	1397.4	1325.2	1272.9	1262.9	1260.4	1265.4
45°	10033.4	8155.3	3138.6	1477.1	1382.5	1322.7	1250.4	1203.1	1193.2	1193.2	1190.7
47.5°	10917.7	8551.3	2767.4	1432.3	1342.6	1265.4	1190.7	1143.3	1125.9	1120.9	1120.9
50°	12292.7	9410.7	2490.9	1392.4	1292.8	1213.1	1135.9	1081.1	1053.7	1051.2	1048.7
52.5°	14203.2	10750.8	2383.8	1362.5	1238.0	1158.3	1073.6	1021.3	986.4	978.9	973.9
55°	16437.6	12621.5	2530.8	1340.1	1180.7	1096.0	1008.8	954.0	921.6	906.7	904.2
57.5°	19025.6	14868.3	3088.7	1310.2	1128.4	1028.7	944.1	889.3	854.4	836.9	832.0
60°	21349.7	17177.4	4062.7	1292.8	1083.5	956.5	869.3	819.5	787.1	769.7	767.2
62.5°	23902.9	19379.3	5225.9	1340.1	1063.6	886.8	799.6	754.7	727.3	709.9	709.9
65°	26630.4	21583.8	5995.6	1499.5	1093.5	832.0	724.9	687.5	662.6	650.1	647.6
67.5°	28468.7	22346.0	4939.5	1663.9	1168.2	772.2	652.6	622.7	607.8	595.3	595.3
69°	28269.4	21382.0	3644.2	1706.3	1190.7	742.3	612.8	590.3	570.4	565.4	560.5
70°	27639.2	20283.6	3053.9	1678.9	1173.2	714.9	587.9	560.5	543.0	538.0	535.5
72.5°	24617.8	17590.9	2274.2	1459.7	998.9	620.2	520.6	495.7	480.7	473.3	473.3
75°	20452.9	14377.6	1776.0	1160.8	782.1	523.1	445.9	425.9	413.5	408.5	406.0
77.5°	11463.2	8028.2	1275.4	909.2	592.8	423.5	373.6	356.2	343.7	338.8	338.8
80°	3193.4	2294.1	749.8	600.3	403.5	321.3	296.4	284.0	266.5	254.1	261.5
82.5°	1203.1	993.9	428.4	361.2	256.6	214.2	206.7	196.8	189.3	171.9	171.9
85°	585.4	483.2	274.0	191.8	142.0	112.1	107.1	102.1	97.1	84.7	87.2
87.5°	201.8	214.2	119.6	69.7	42.3	27.4	22.4	12.5	12.5	12.5	12.5
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)