

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: P532908

Luminaire Tested: **GALN-SA8B-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41461 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

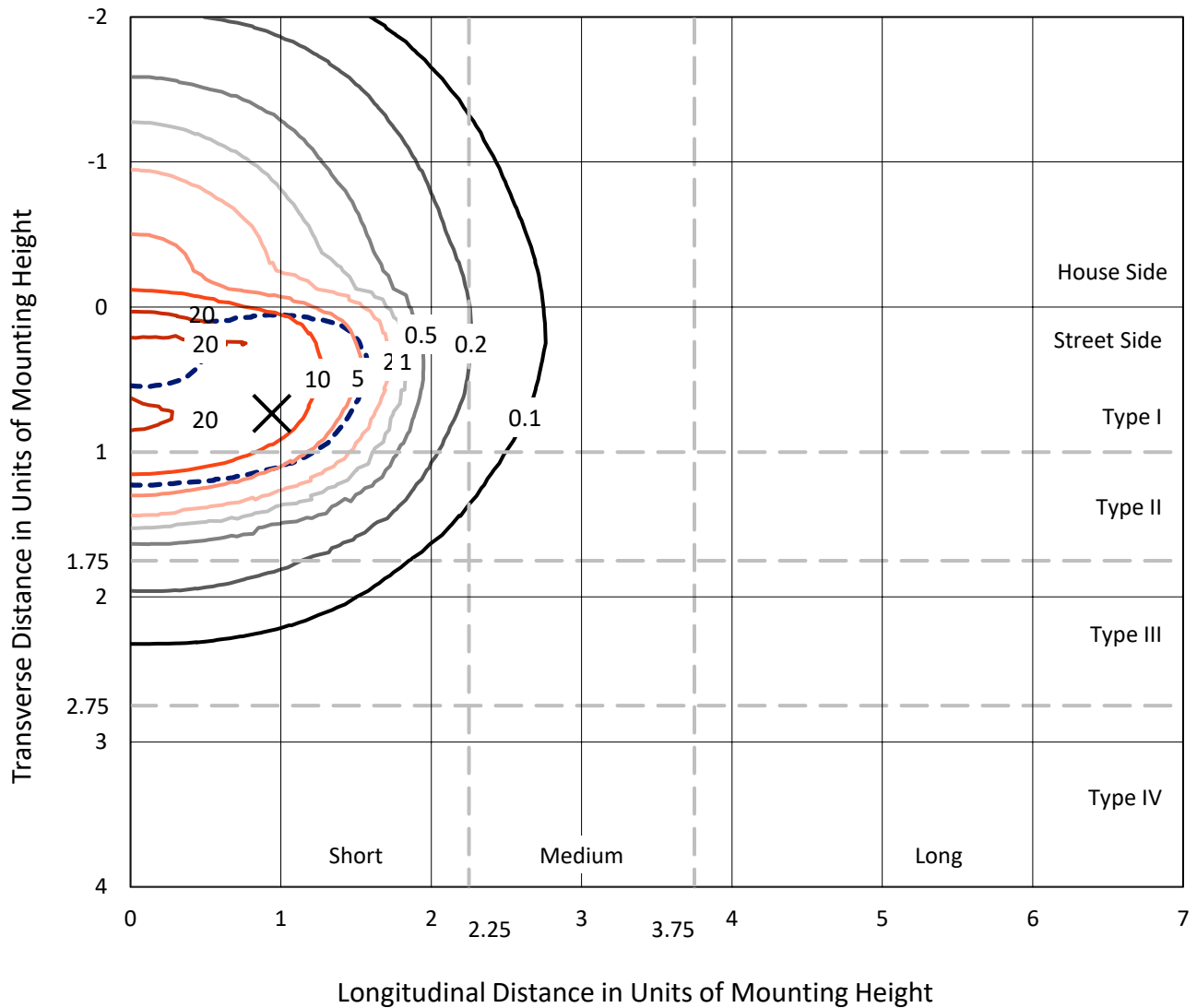
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

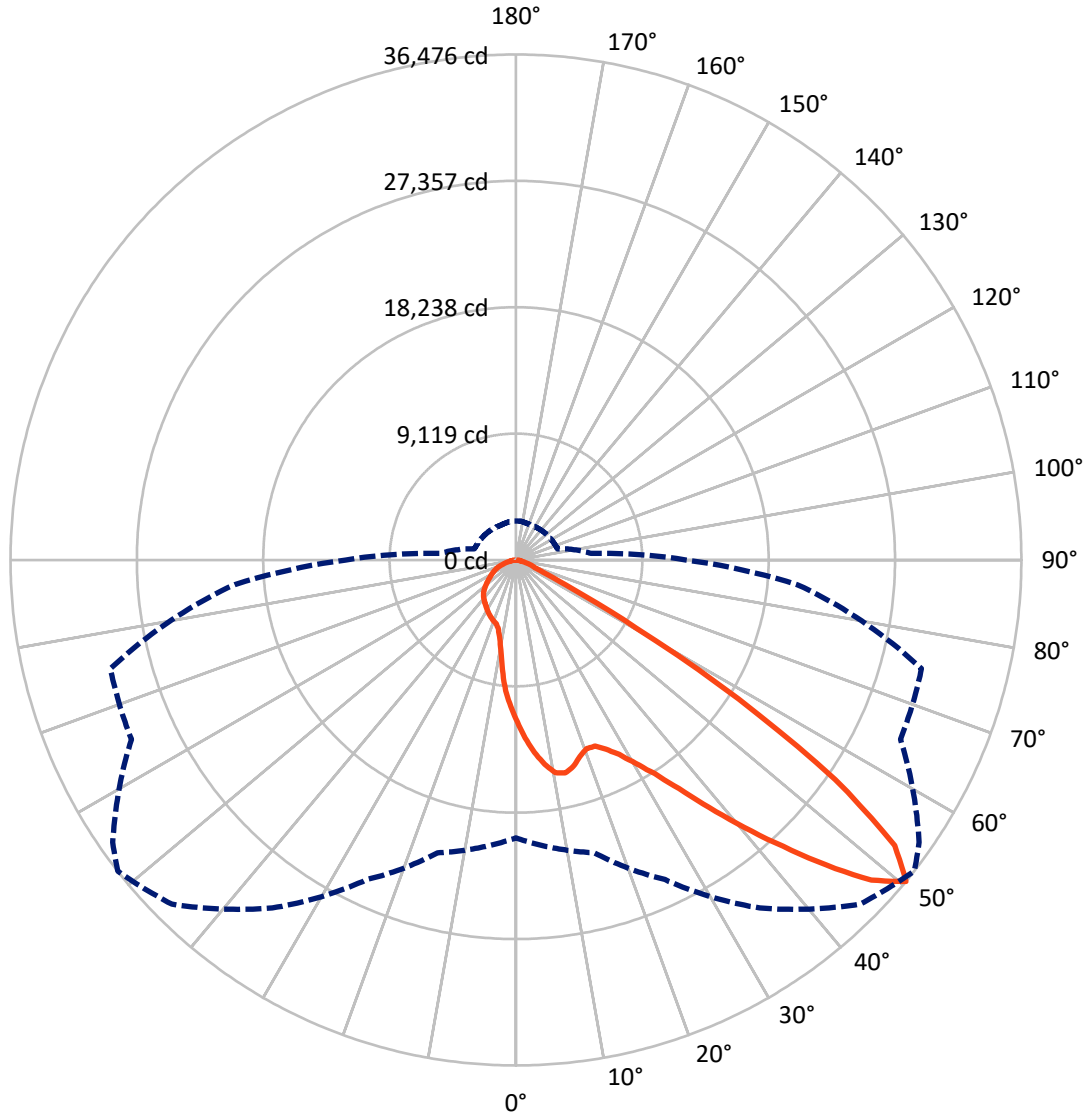
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7793.7	0.0	7793.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33667.3	0.0	33667.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	41461.0	0.0	41461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1077.2	2.6
10°-20°	2887.2	7.0
20°-30°	4863.3	11.7
30°-40°	8161.1	19.7
40°-50°	12484.4	30.1
50°-60°	9102.2	22.0
60°-70°	2025.7	4.9
70°-80°	730.6	1.8
80°-90°	129.3	0.3
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°	41461.0	100.0
0°-180°	41461.0	100.0

Coefficient of Utilization



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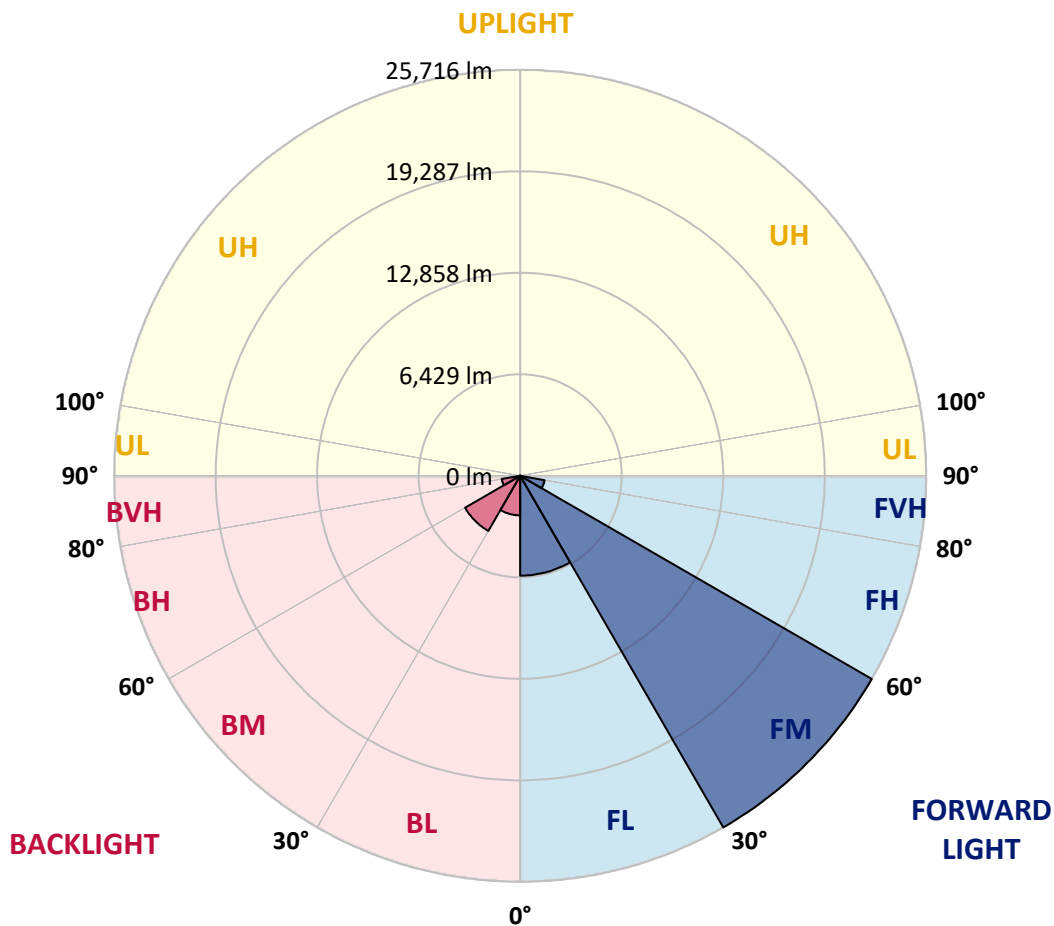
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6324.2	15.3			
FM (30°-60°)	25716.2	62.0			
FH (60°-80°)	1568.9	3.8			G1/1800
FVH (80°-90°)	58.0	0.1			G1/100
BL (0°-30°)	2503.5	6.0	B4/5000		
BM (30°-60°)	4031.4	9.7	B3/5000		
BH (60°-80°)	1187.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	71.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11687.2	11687.2	11687.2	11687.2	11687.2	11687.2	11687.2	11687.2	11687.2	11687.2	11687.2
2.5°	13760.8	13496.0	13525.9	13336.1	13131.2	13071.2	12861.4	12661.5	12511.6	12191.8	11897.0
5°	15039.9	14960.0	14840.1	14690.2	14535.3	14155.5	13940.7	13690.8	13141.2	12646.5	12156.9
7.5°	15224.8	15209.8	15274.8	15274.8	15329.7	15184.8	14880.0	14705.1	14120.5	13316.1	12406.7
10°	13925.7	13970.6	14285.4	14695.2	15264.8	15659.5	15609.5	15564.6	14925.0	13825.7	12701.5
12.5°	12891.4	12791.4	12976.3	13326.1	14180.5	15134.9	15779.4	15784.4	15619.5	14640.2	12916.3
15°	12306.8	12376.7	12426.7	12591.6	13236.1	14340.4	15474.6	15809.4	16533.9	15214.8	13256.1
17.5°	12681.5	12446.7	12436.7	12476.6	12806.4	13635.9	14910.0	15484.6	17033.6	15954.3	13675.8
20°	13171.2	13166.2	13026.3	12976.3	12971.3	13710.8	14540.3	15319.7	17298.4	16913.7	14100.6
22.5°	14030.6	14030.6	13800.8	13690.8	13456.0	14060.6	14590.2	15119.9	17738.1	17573.2	14305.4
25°	15469.6	15234.8	14840.1	14570.2	14435.3	14650.2	15119.9	15594.6	18122.9	18272.8	14730.1
27.5°	16798.7	16429.0	16234.1	15769.4	15589.6	15464.6	15894.3	16374.0	18572.6	19362.0	14960.0
30°	18307.7	18242.8	17893.0	17293.4	16848.7	16618.9	17013.6	17488.3	19397.0	20476.3	15489.6
32.5°	21005.9	20416.3	19941.6	19207.1	18482.6	17992.9	18382.7	18697.5	20766.1	21640.5	16069.2
35°	23919.0	23729.1	22909.6	21585.5	20476.3	20036.6	20266.4	20501.3	22360.0	23419.3	17043.6
37.5°	26782.1	26522.2	25847.7	24733.4	23384.3	22489.9	22654.8	22929.6	24148.8	25817.7	18232.8
40°	28840.7	28520.9	28181.1	28016.2	26677.1	25452.9	25358.0	25428.0	26567.2	28066.2	19551.9
42.5°	28990.6	29385.3	29490.2	30154.8	29840.0	28835.7	28251.1	28266.1	28875.7	30289.7	20886.0
45°	28675.8	28311.0	29085.5	30899.3	31938.6	32408.3	31423.9	31299.0	30304.7	31578.8	21550.6
47.5°	25373.0	25472.9	26782.1	29650.1	32653.1	34751.7	34521.9	34107.1	31069.2	31533.9	21445.6
50°	20056.6	20661.2	21875.3	25447.9	30654.5	35121.5	36475.6	35516.2	30614.5	30294.7	20376.3
52.5°	13356.1	13605.9	14405.3	19017.3	24648.5	31394.0	34227.1	34446.9	30194.8	28670.8	19022.3
55°	5946.0	5926.0	7050.3	9933.3	15464.6	23889.0	27966.3	29305.4	28580.8	27016.9	17703.1
57.5°	2518.3	2603.3	3062.9	4292.1	7604.9	14415.3	18947.3	20121.5	21980.3	22185.1	13580.9
60°	1703.9	1713.9	1838.8	2148.6	3182.9	6770.5	9938.3	11347.4	12676.5	12586.6	7205.2
62.5°	1339.1	1374.1	1469.0	1593.9	1888.7	3072.9	4447.0	5231.5	5316.4	4472.0	2733.2
65°	1144.2	1149.2	1244.2	1349.1	1479.0	1788.8	2143.6	2183.5	2208.5	2128.6	2008.7
67.5°	944.4	954.4	1029.3	1149.2	1269.1	1369.1	1469.0	1519.0	1633.9	1858.8	1828.8
70°	749.5	764.5	829.4	929.4	1039.3	1099.3	1224.2	1269.1	1374.1	1549.0	1618.9
72.5°	569.6	574.6	629.6	699.5	799.5	859.4	964.4	1014.3	1084.3	1234.2	1299.1
75°	409.7	424.7	464.7	499.7	514.7	554.6	654.6	709.5	809.5	874.4	879.4
77.5°	214.9	224.8	234.8	234.8	284.8	359.8	424.7	454.7	524.6	574.6	549.6
80°	84.9	89.9	114.9	154.9	199.9	259.8	304.8	319.8	379.7	409.7	424.7
82.5°	50.0	55.0	74.9	109.9	144.9	184.9	219.9	234.8	274.8	309.8	319.8
85°	25.0	30.0	45.0	70.0	94.9	114.9	109.9	104.9	104.9	99.9	104.9
87.5°	10.0	10.0	15.0	15.0	15.0	20.0	25.0	25.0	25.0	30.0	30.0
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°	11687.2	11687.2	11687.2	11687.2	11687.2	11687.2	11687.2	11687.2	11687.2	11687.2	11687.2
2.5°	11702.2	11502.3	11317.4	10977.6	10607.9	10503.0	10073.3	9918.4	9808.4	9678.5	9638.5
5°	11762.1	11497.3	10902.7	10218.2	9673.5	8974.0	8514.3	8019.6	7659.9	7569.9	7544.9
7.5°	11887.0	11432.3	10408.0	9373.7	8259.5	7310.1	6585.6	6195.8	5851.1	5831.1	5796.1
10°	12026.9	11237.5	9868.4	8244.5	6820.4	5941.0	5506.3	5336.4	5251.5	5231.5	5221.5
12.5°	12141.9	11197.5	9263.8	7145.2	5801.1	5271.5	5141.6	5126.6	5161.5	5171.5	5191.5
15°	12191.8	11037.6	8534.3	6160.9	5166.5	4971.7	5026.6	5086.6	5111.6	5176.5	5126.6
17.5°	12286.8	10832.7	7634.9	5381.4	4811.8	4846.8	4941.7	5011.6	5051.6	5096.6	5031.6
20°	12336.7	10647.9	6790.4	4916.7	4686.9	4751.8	4881.7	4936.7	4986.7	5006.6	4931.7
22.5°	12291.8	10268.1	6045.9	4542.0	4566.9	4651.9	4766.8	4826.8	4796.8	4716.8	4671.9
25°	12171.8	9733.5	5271.5	4302.1	4397.1	4547.0	4636.9	4591.9	4537.0	4492.0	4477.0
27.5°	12166.8	9078.9	4711.8	4082.3	4252.2	4457.0	4427.0	4387.1	4412.0	4377.1	4337.1
30°	12191.8	8444.3	4252.2	3957.3	4147.2	4247.2	4282.1	4242.2	4272.1	4207.2	4227.2
32.5°	12061.9	7824.8	3952.4	3812.4	4022.3	4017.3	4132.2	4162.2	4092.3	3957.3	3977.3
35°	12116.9	7325.1	3697.5	3747.5	3882.4	3882.4	3972.3	3937.4	3752.5	3672.5	3692.5
37.5°	12496.6	6835.4	3572.6	3657.5	3747.5	3787.5	3757.5	3607.6	3562.6	3562.6	3572.6
40°	12856.4	6415.7	3497.7	3637.6	3622.6	3647.6	3427.7	3442.7	3442.7	3447.7	3422.7
42.5°	13176.2	6130.9	3437.7	3517.6	3542.6	3412.7	3277.8	3262.8	3297.8	3292.8	3272.8
45°	13291.1	5896.0	3352.8	3382.7	3402.7	3187.9	3122.9	3092.9	3132.9	3147.9	3167.9
47.5°	12851.4	5701.2	3257.8	3197.9	3157.9	3018.0	2933.0	2878.1	2928.0	3013.0	3033.0
50°	12286.8	5446.4	3107.9	2993.0	2908.1	2848.1	2788.1	2733.2	2768.1	2828.1	2813.1
52.5°	11452.3	5046.6	2918.0	2798.1	2653.2	2668.2	2613.2	2583.3	2603.3	2603.3	2588.3
55°	10263.1	4147.2	2598.3	2513.3	2393.4	2433.4	2443.4	2403.4	2363.4	2398.4	2368.4
57.5°	7005.3	2928.0	2318.4	2318.4	2198.5	2253.5	2248.5	2153.6	2058.6	2068.6	2048.6
60°	4052.3	2333.4	2138.6	2118.6	1993.7	2038.6	2048.6	1983.7	1838.8	1848.8	1828.8
62.5°	2303.5	1993.7	1868.7	1838.8	1813.8	1853.8	1853.8	1768.8	1643.9	1653.9	1633.9
65°	1958.7	1848.8	1668.9	1663.9	1653.9	1663.9	1623.9	1534.0	1424.0	1379.1	1384.1
67.5°	1778.8	1708.9	1534.0	1489.0	1459.0	1454.0	1379.1	1294.1	1244.2	1204.2	1199.2
70°	1559.0	1504.0	1374.1	1314.1	1284.1	1214.2	1139.2	1084.3	1014.3	994.3	1014.3
72.5°	1234.2	1229.2	1179.2	1114.3	1049.3	994.3	929.4	854.4	789.5	774.5	739.5
75°	854.4	864.4	874.4	864.4	809.5	739.5	664.6	604.6	524.6	479.7	469.7
77.5°	559.6	574.6	589.6	569.6	534.6	469.7	419.7	344.8	284.8	249.8	244.8
80°	409.7	429.7	439.7	424.7	384.7	334.8	279.8	219.9	174.9	144.9	144.9
82.5°	314.8	334.8	344.8	319.8	279.8	239.8	199.9	154.9	119.9	94.9	89.9
85°	109.9	104.9	124.9	129.9	154.9	144.9	119.9	89.9	70.0	50.0	45.0
87.5°	30.0	30.0	35.0	35.0	30.0	25.0	25.0	25.0	20.0	15.0	15.0
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)