

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: P459509

Luminaire Tested: **GALN-SA9C-735-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA 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: 48838 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

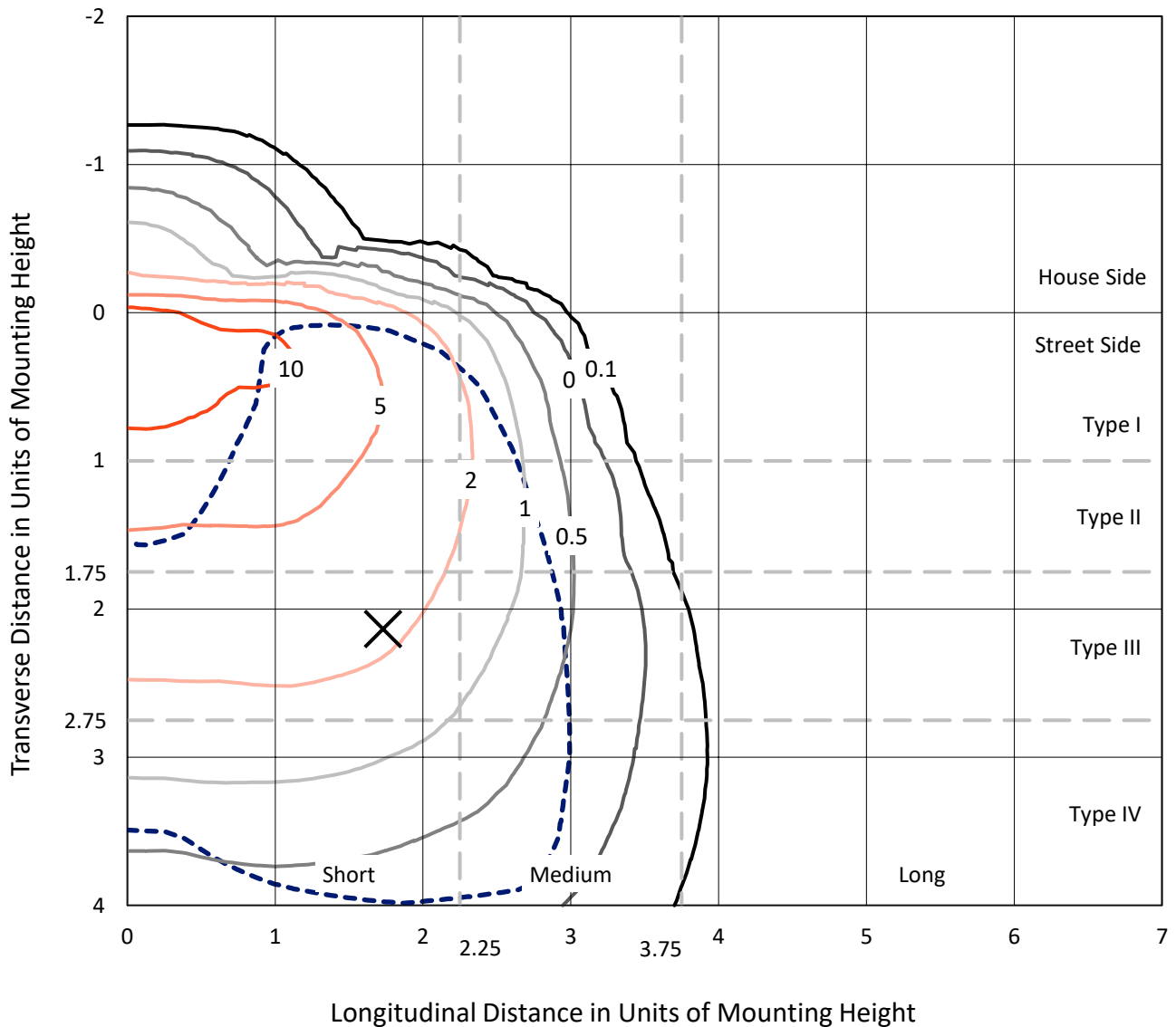
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

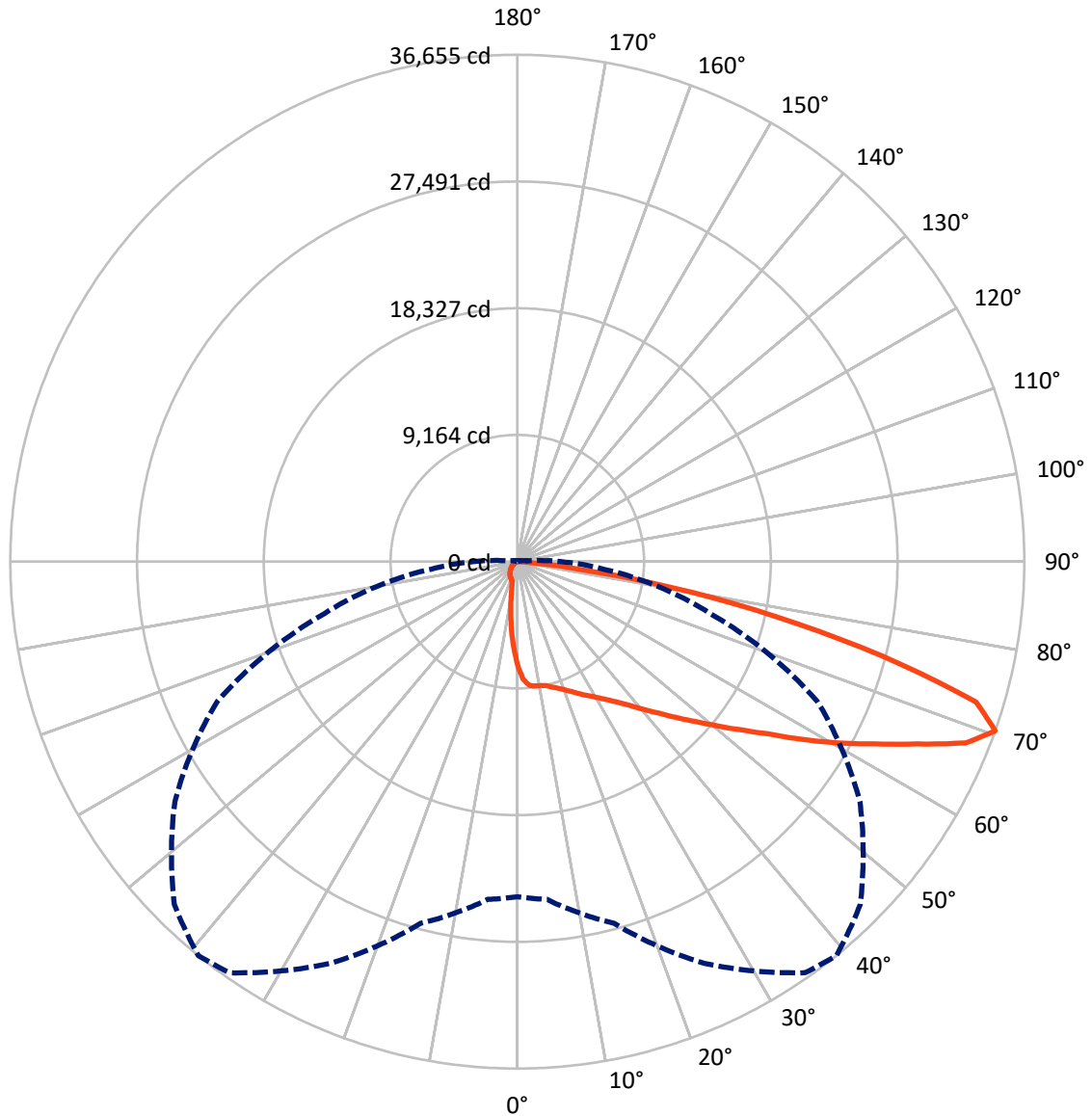
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3184.5	0.0	3184.5
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	45653.5	0.0	45653.5
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	48838.0	0.0	48838.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	650.0	1.3
10°-20°	1689.1	3.5
20°-30°	2829.7	5.8
30°-40°	4388.5	9.0
40°-50°	6954.4	14.2
50°-60°	10194.1	20.9
60°-70°	13066.4	26.8
70°-80°	8210.5	16.8
80°-90°	855.3	1.8
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°	48838.0	100.0
0°-180°	48838.0	100.0

**Coefficient of Utilization**



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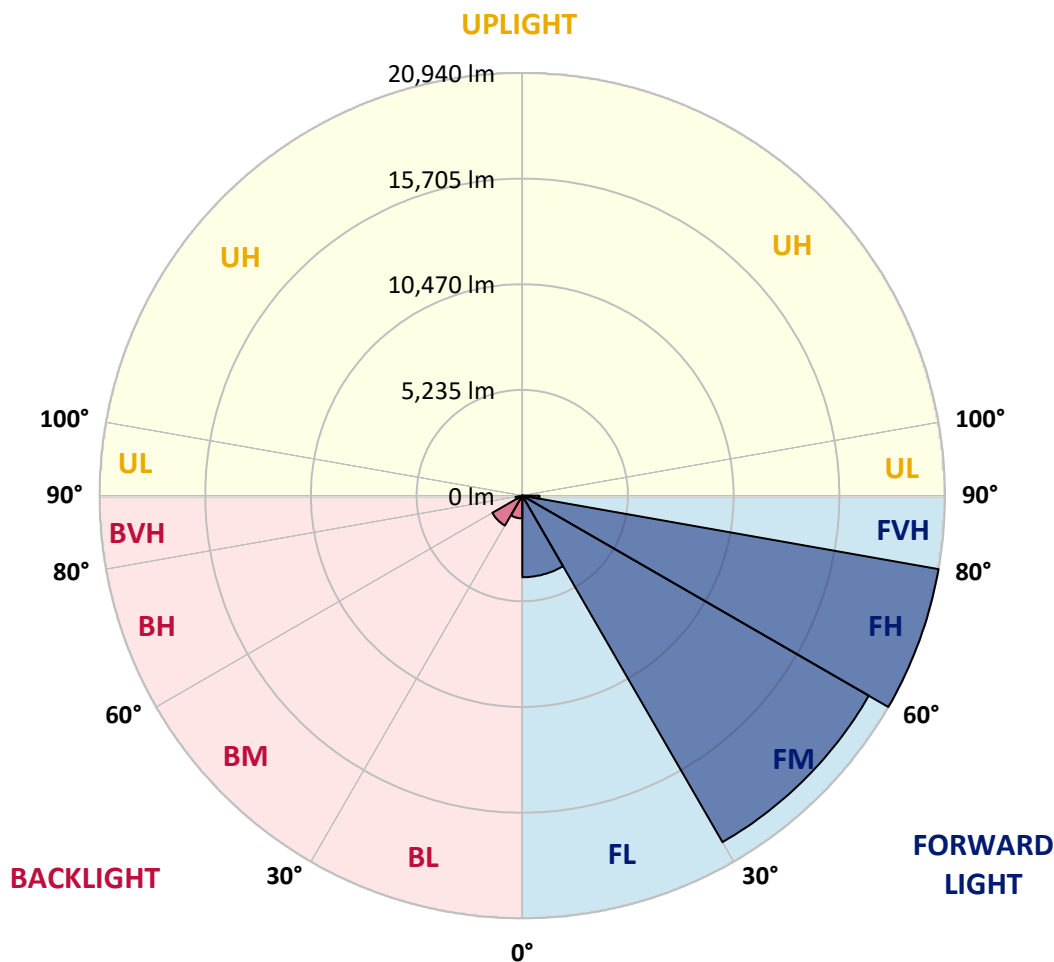
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4041.1	8.3			
FM	(30°-60°)	19823.2	40.6			
FH	(60°-80°)	20940.1	42.9			G5
FVH	(80°-90°)	849.0	1.7			G5
BL	(0°-30°)	1127.6	2.3	B3/2500		
BM	(30°-60°)	1713.8	3.5	B2/2500		
BH	(60°-80°)	336.8	0.7	B1/500		G1/500
BVH	(80°-90°)	6.3	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°	39°	45°	55°	65°	75°	85°
0°	7620.4	7620.4	7620.4	7620.4	7620.4	7620.4	7620.4	7620.4	7620.4	7620.4	7620.4
2.5°	8805.1	8775.6	8736.2	8690.3	8559.0	8536.0	8457.3	8289.9	8089.7	7925.6	7699.2
5°	9221.9	9238.3	9208.8	9126.8	9031.6	8975.8	8877.3	8618.1	8358.8	8027.3	7656.5
7.5°	9317.1	9349.9	9313.8	9235.1	9143.2	9084.1	9005.3	8782.2	8480.2	8102.8	7594.1
10°	9307.3	9346.6	9323.7	9251.5	9176.0	9120.2	9034.9	8857.7	8614.8	8217.7	7613.8
12.5°	9290.9	9343.4	9340.1	9304.0	9241.6	9199.0	9146.5	8988.9	8762.5	8385.1	7722.1
15°	9244.9	9310.5	9369.6	9399.2	9402.4	9402.4	9336.8	9169.4	8952.8	8605.0	7863.3
17.5°	9264.6	9340.1	9487.8	9573.1	9632.2	9625.6	9556.7	9376.2	9136.6	8831.4	8010.9
20°	9386.0	9487.8	9694.5	9865.2	9924.2	9904.6	9812.7	9602.6	9330.2	9025.0	8155.3
22.5°	9684.7	9776.6	10035.8	10236.0	10278.7	10226.2	10094.9	9809.4	9563.2	9235.1	8329.3
25°	10131.0	10239.3	10478.9	10629.8	10629.8	10600.3	10416.5	10081.8	9825.8	9527.1	8555.7
27.5°	10672.5	10764.4	11000.7	11135.2	11056.5	10971.1	10787.4	10383.7	10137.6	9894.7	8828.1
30°	11220.6	11279.6	11529.1	11588.1	11506.1	11397.8	11200.9	10797.2	10580.6	10393.5	9221.9
32.5°	11739.1	11867.1	12073.8	12060.7	11949.1	11896.6	11716.1	11286.2	11164.8	11145.1	9773.3
35°	12257.6	12356.1	12539.9	12585.8	12487.4	12477.5	12346.2	12027.9	12031.2	12159.2	10633.1
37.5°	12704.0	12792.6	13009.2	13110.9	13130.6	13179.8	13127.3	12917.3	13215.9	13567.1	11771.9
40°	13078.1	13202.8	13478.5	13655.7	13859.2	14039.7	14049.5	14095.4	14696.0	15299.9	13258.6
42.5°	13370.2	13544.1	13944.5	14272.7	14738.7	14968.4	15152.2	15404.9	16415.7	17318.2	15011.1
45°	13750.9	13951.0	14449.9	14965.1	15693.7	16071.1	16327.1	17003.1	18437.3	19668.0	16809.5
47.5°	14381.0	14486.0	14994.7	15746.2	16704.5	17242.7	17741.6	18765.5	20606.6	21709.3	18306.0
50°	15191.6	15260.5	15644.5	16688.1	17928.6	18637.5	19546.6	20751.0	22857.9	23402.7	19152.7
52.5°	16087.5	16110.5	16399.3	17725.1	19300.4	20193.1	21210.5	22697.1	24692.5	24610.4	19713.9
55°	17127.9	17095.0	17341.2	18850.8	20924.9	21945.6	23130.3	24689.2	26284.2	25467.0	20035.6
57.5°	18319.2	18230.6	18470.1	20344.0	23005.6	24226.4	25430.9	26408.9	27518.1	26185.7	20189.8
60°	19566.3	19389.0	19674.6	22021.1	25457.1	26615.6	27616.6	27879.1	28817.7	26756.7	19924.0
62.5°	20560.6	20563.9	21095.6	23806.4	27977.6	28991.7	29523.3	29759.6	29936.8	26632.0	18525.9
65°	22113.0	22165.5	23015.5	26284.2	30895.1	31774.7	32138.9	31371.0	29986.1	25083.0	16425.5
67.5°	23714.5	23881.9	25437.4	29697.3	34265.6	34974.4	34505.1	31682.8	28647.1	21548.5	12454.5
70°	24236.3	24512.0	27075.1	32047.0	36287.2	36654.7	35066.3	30228.9	23947.5	14407.2	6268.3
72.5°	22208.1	22654.5	26133.2	31190.5	34997.4	34679.1	31374.3	25352.1	15224.4	5470.8	1913.3
75°	15660.9	15857.8	21719.1	25873.9	28148.2	27245.7	23865.4	16343.5	6261.7	1535.9	656.4
77.5°	8086.4	7991.2	12917.3	17167.2	20074.9	19139.6	15628.1	8460.6	2372.8	640.0	406.9
80°	4181.0	4250.0	5589.0	8995.5	12254.3	11276.4	8332.6	3921.8	1263.5	354.4	311.8
82.5°	2343.2	2198.8	3212.9	3928.3	5730.1	4492.8	3196.5	2776.4	551.3	213.3	295.4
85°	426.6	446.3	1762.3	2123.3	1988.8	1263.5	1030.5	1854.2	160.8	118.1	206.8
87.5°	6.6	6.6	341.3	610.4	387.3	177.2	324.9	265.8	32.8	45.9	36.1
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°	7620.4	7620.4	7620.4	7620.4	7620.4	7620.4	7620.4	7620.4	7620.4	7620.4	7620.4
2.5°	7584.3	7459.6	7226.6	6996.9	6704.8	6465.2	6304.4	6137.0	5966.4	5979.5	6018.9
5°	7453.0	7236.4	6777.0	6291.3	5825.2	5405.2	4991.7	4620.8	4469.8	4332.0	4338.6
7.5°	7321.8	7016.5	6343.8	5582.4	4876.8	4161.4	3642.8	3216.2	2989.7	2819.1	2769.9
10°	7262.7	6859.0	5946.7	4899.8	3898.8	3117.7	2451.5	2103.7	1834.5	1749.2	1772.2
12.5°	7288.9	6780.3	5589.0	4282.8	3091.5	2172.6	1706.6	1529.3	1470.3	1460.4	1453.8
15°	7338.2	6724.5	5237.8	3600.2	2271.0	1614.7	1434.2	1401.3	1394.8	1388.2	1391.5
17.5°	7403.8	6675.2	4863.7	2960.2	1742.7	1411.2	1358.7	1342.3	1339.0	1339.0	1339.0
20°	7469.4	6619.4	4446.9	2389.2	1453.8	1332.4	1299.6	1289.8	1286.5	1286.5	1283.2
22.5°	7544.9	6570.2	4023.5	1877.2	1339.0	1276.6	1247.1	1240.5	1237.2	1234.0	1234.0
25°	7653.2	6507.9	3573.9	1535.9	1266.8	1224.1	1194.6	1188.0	1184.7	1171.6	1174.9
27.5°	7797.6	6461.9	3111.2	1325.9	1201.1	1158.5	1138.8	1128.9	1122.4	1112.5	1115.8
30°	7994.5	6422.5	2618.9	1211.0	1125.7	1089.6	1069.9	1063.3	1056.7	1046.9	1046.9
32.5°	8335.8	6438.9	2100.4	1119.1	1056.7	1014.1	994.4	987.8	981.3	971.4	971.4
35°	8847.8	6534.1	1680.3	1040.3	974.7	932.0	912.3	912.3	902.5	889.4	886.1
37.5°	9684.7	6777.0	1348.8	964.9	895.9	856.6	833.6	827.0	817.2	797.5	794.2
40°	10672.5	7154.4	1135.5	889.4	823.7	784.4	764.7	745.0	718.7	699.0	695.7
42.5°	11913.0	7541.6	984.5	813.9	754.8	718.7	695.7	662.9	623.5	597.3	594.0
45°	13206.1	7896.1	882.8	745.0	689.2	659.6	633.4	580.9	531.7	498.8	495.6
47.5°	14170.9	7961.7	800.8	679.3	633.4	603.9	567.8	502.1	436.5	406.9	397.1
50°	14627.1	7643.4	715.4	613.7	577.6	544.8	498.8	423.4	351.2	315.1	308.5
52.5°	14787.9	7092.0	646.5	554.6	521.8	482.4	426.6	341.3	275.7	239.6	236.3
55°	14722.3	6396.3	584.2	498.8	456.2	410.2	354.4	272.4	203.5	173.9	167.4
57.5°	14377.7	5510.2	521.8	443.0	390.5	344.6	282.2	203.5	137.8	111.6	108.3
60°	13448.9	4302.5	459.5	380.7	331.5	282.2	223.2	144.4	85.3	62.4	62.4
62.5°	11880.2	3193.2	400.4	318.3	279.0	226.4	157.5	91.9	45.9	32.8	29.5
65°	9927.5	2356.4	334.7	269.1	233.0	177.2	111.6	55.8	23.0	9.8	6.6
67.5°	6927.9	1453.8	279.0	219.9	190.3	128.0	68.9	23.0	9.8	0.0	0.0
70°	3147.3	692.5	213.3	167.4	144.4	91.9	36.1	13.1	6.6	0.0	0.0
72.5°	978.0	364.3	151.0	121.4	98.5	59.1	19.7	9.8	6.6	0.0	0.0
75°	452.9	233.0	95.2	65.6	55.8	29.5	13.1	6.6	3.3	0.0	0.0
77.5°	338.0	180.5	55.8	36.1	29.5	19.7	9.8	6.6	3.3	0.0	0.0
80°	295.4	91.9	32.8	23.0	16.4	13.1	6.6	3.3	0.0	0.0	0.0
82.5°	265.8	45.9	19.7	13.1	9.8	6.6	3.3	3.3	0.0	0.0	0.0
85°	144.4	26.3	13.1	9.8	6.6	3.3	3.3	0.0	0.0	0.0	0.0
87.5°	26.3	13.1	9.8	6.6	6.6	3.3	3.3	3.3	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)