

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: P651536

Luminaire Tested: **GALN-SA7D-840-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-840-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35478.4 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

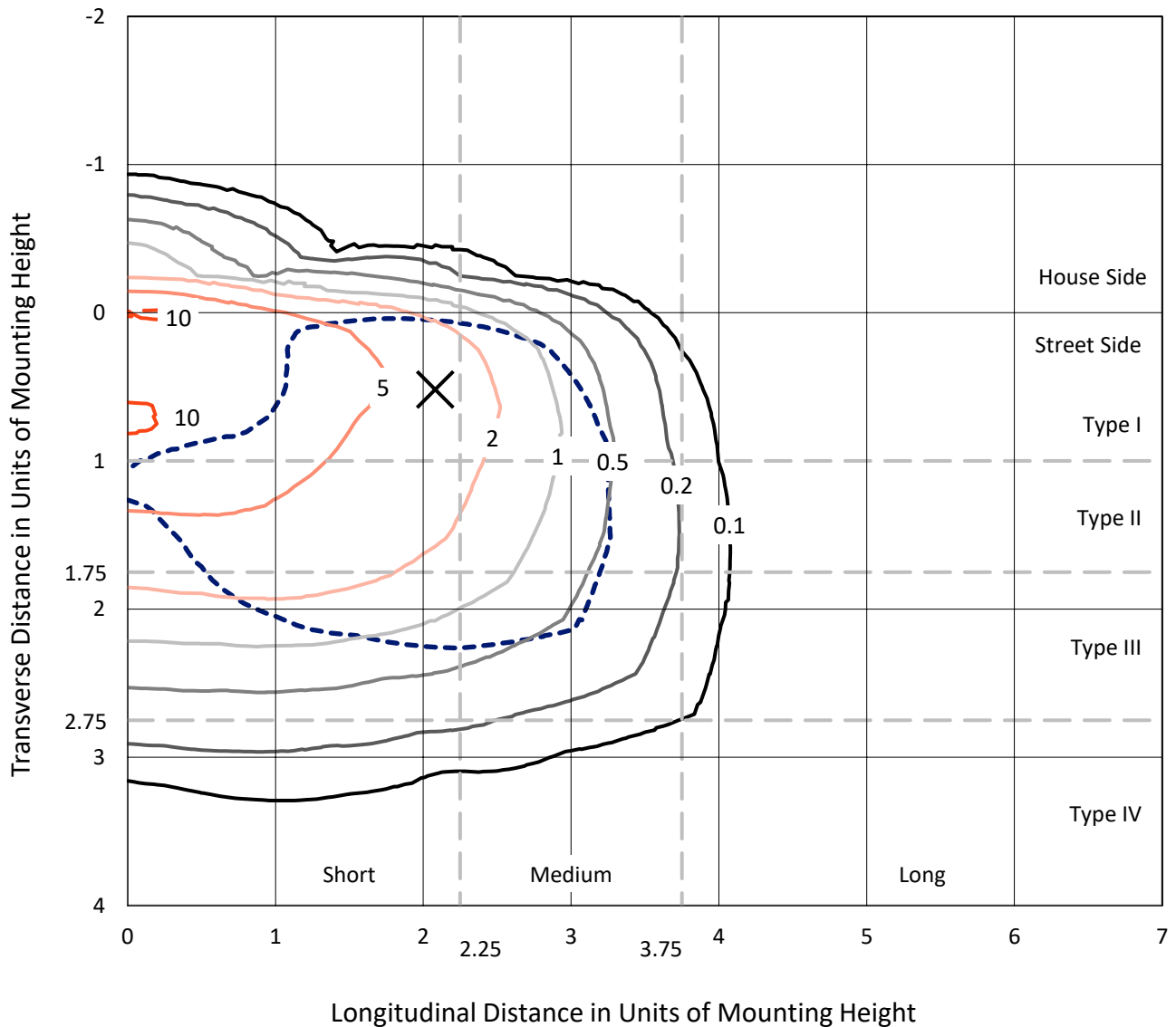
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

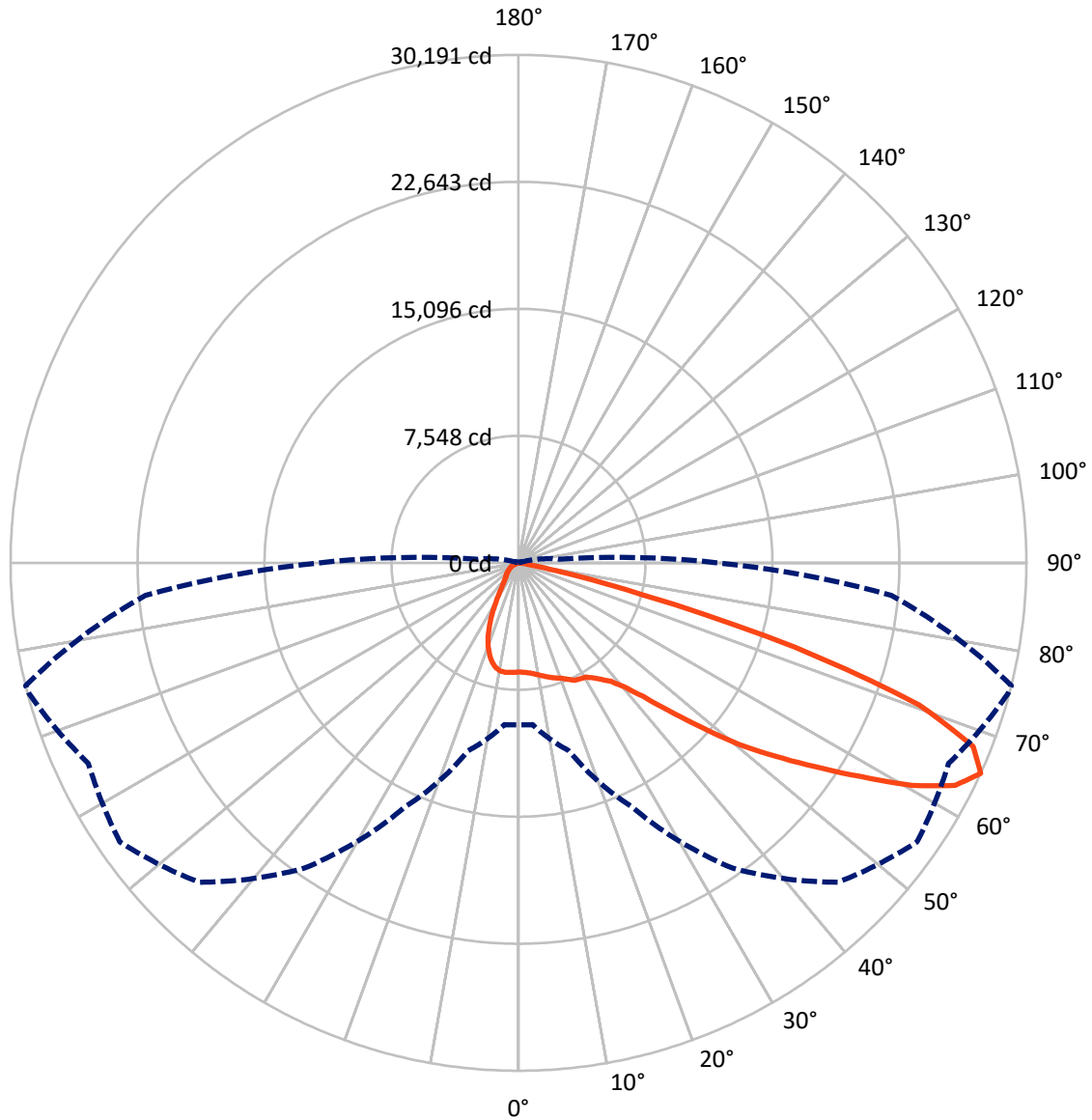
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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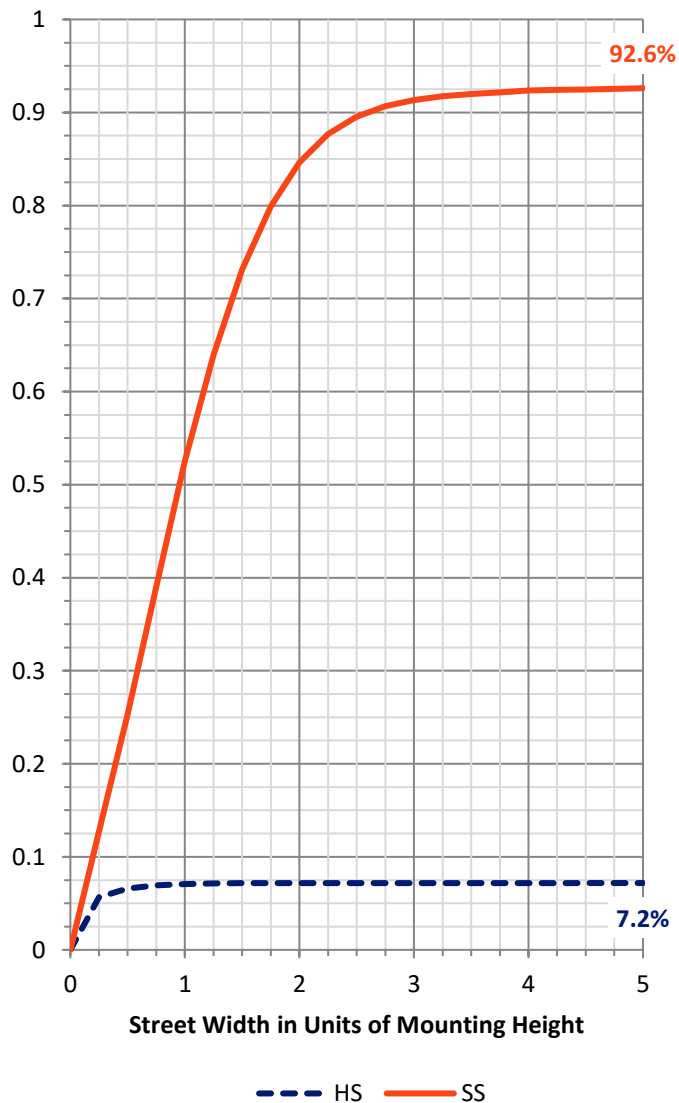
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2562.3	0.0	2562.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	32916.2	0.0	32916.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	35478.4	0.0	35478.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	534.6	1.5
10°-20°	1190.4	3.4
20°-30°	1918.2	5.4
30°-40°	3335.3	9.4
40°-50°	5511.4	15.5
50°-60°	8514.0	24.0
60°-70°	10396.8	29.3
70°-80°	3945.9	11.1
80°-90°	131.7	0.4
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°	35478.4	100.0
0°-180°	35478.4	100.0

**Coefficient of Utilization**

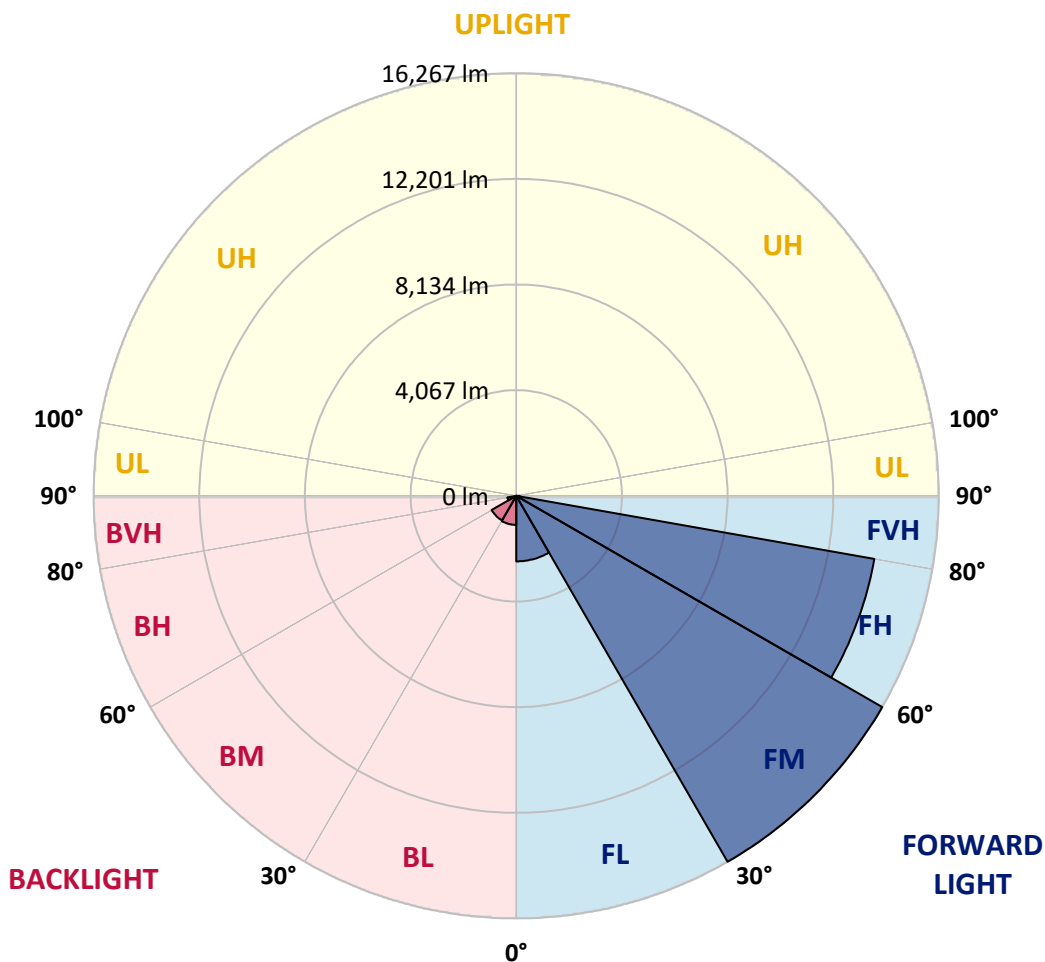


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2523.9	7.1			
FM (30°-60°)	16267.4	45.9			
FH (60°-80°)	13995.0	39.4			G5
FVH (80°-90°)	129.9	0.4			G2/225
BL (0°-30°)	1119.4	3.2	B3/2500		
BM (30°-60°)	1093.4	3.1	B2/2500		
BH (60°-80°)	347.7	1.0	B1/500		G1/500
BVH (80°-90°)	1.8	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6490.2	6490.2	6490.2	6490.2	6490.2	6490.2	6490.2	6490.2	6490.2	6490.2	6490.2
2.5°	6202.0	6204.6	6219.6	6257.2	6314.8	6362.4	6402.4	6467.6	6512.7	6517.7	6532.7
5°	5773.7	5743.7	5773.7	5871.4	5959.1	6091.9	6254.7	6417.5	6562.7	6572.8	6643.0
7.5°	5292.8	5317.9	5365.4	5465.7	5631.0	5833.8	6069.3	6359.9	6635.4	6660.5	6798.2
10°	4804.4	4859.5	4937.1	5089.9	5320.3	5583.4	5904.0	6319.8	6750.6	6785.7	7023.7
12.5°	4353.4	4378.5	4473.7	4679.1	4964.7	5335.4	5778.8	6297.2	6878.4	6921.0	7264.1
15°	4007.8	4040.3	4123.0	4308.4	4626.5	5102.4	5676.1	6289.8	7003.6	7063.7	7504.6
17.5°	3942.7	3962.7	3997.8	4123.0	4401.0	4917.1	5583.4	6287.2	7123.9	7196.5	7727.5
20°	4210.7	4193.1	4158.1	4145.5	4298.4	4774.3	5515.7	6307.2	7239.1	7321.7	7963.0
22.5°	4882.0	4904.5	4699.2	4456.2	4406.1	4751.7	5505.7	6402.4	7421.9	7519.6	8226.0
25°	6307.2	6134.4	5813.8	5232.7	4794.4	4889.5	5618.5	6627.9	7634.9	7742.6	8464.0
27.5°	7882.9	7830.2	7331.8	6374.9	5558.3	5180.1	5818.8	6800.7	7705.0	7815.2	8599.2
30°	9430.9	9493.5	8922.3	7865.3	6668.0	5718.6	6006.7	6865.8	7767.6	7882.9	8772.1
32.5°	10866.1	10941.3	10440.3	9393.3	7975.5	6650.5	6329.8	7118.9	8030.6	8148.4	9060.2
35°	11995.9	12005.9	11627.7	10793.5	9403.3	7782.6	7028.7	7562.2	8386.4	8524.1	9365.7
37.5°	13032.9	13017.8	12574.5	11855.6	10593.2	8907.4	7907.9	8073.2	8792.2	8934.9	9806.6
40°	13801.9	13811.9	13669.1	12992.8	11702.8	9946.8	8604.3	8551.6	9473.4	9696.4	10447.8
42.5°	14315.3	14408.0	14478.2	14135.0	13098.0	11226.8	9673.9	9576.1	10655.7	10841.1	11354.6
45°	14731.2	14896.5	15247.2	15229.7	14438.1	12797.4	11141.7	10941.3	12331.5	12529.4	12509.4
47.5°	15034.3	15202.1	15783.2	16133.9	15698.1	14320.4	12987.8	12815.0	14332.9	14548.3	13784.3
50°	15189.6	15390.0	16131.4	16810.2	16682.5	15788.3	15091.9	15101.9	16750.1	16958.0	15262.2
52.5°	14826.3	15086.9	16316.7	17539.1	17787.1	17193.5	17063.2	17393.9	18901.8	19079.7	16597.3
55°	13666.6	13994.7	16063.8	18160.4	19067.2	18851.7	19302.5	19806.1	21253.9	21369.1	17967.5
57.5°	12932.6	13280.8	15317.3	18688.9	20605.1	20935.8	21649.6	22017.9	23681.1	23974.2	19540.6
60°	12314.0	12587.0	14703.6	18801.6	22168.2	23485.8	24179.6	24560.3	26676.9	26867.3	21271.4
62.5°	11284.5	11597.6	13666.6	18015.1	22954.7	25527.2	26965.0	26794.7	28994.0	29126.7	22333.5
65°	9628.8	9656.3	11562.5	16038.7	22143.1	26852.3	28921.3	28207.4	30101.1	30191.3	22250.8
67.5°	7186.5	7452.0	8894.8	12607.0	18703.9	25720.1	29555.0	28245.0	29402.3	29151.8	20484.9
70°	4629.0	4831.9	6029.2	8742.0	13486.3	21464.3	27453.4	26308.8	25805.2	25249.2	16767.6
72.5°	2136.6	2397.2	3582.0	4994.7	7998.1	15289.8	22285.9	21374.1	18573.7	17201.0	10658.2
75°	931.8	996.9	1768.5	2635.1	3749.8	8085.7	14693.6	13268.4	8388.8	7662.4	4265.8
77.5°	568.6	611.2	926.8	1412.7	1472.8	3081.0	7915.4	5788.8	2592.6	2286.9	1157.2
80°	385.8	433.4	673.8	738.9	503.5	859.2	2970.7	1545.5	523.5	501.0	248.0
82.5°	187.9	238.0	498.5	413.3	217.9	275.5	864.2	330.7	152.8	142.8	87.6
85°	27.6	47.6	280.6	270.5	97.7	65.1	152.8	82.7	52.6	50.1	40.1
87.5°	0.0	0.0	95.2	42.6	10.0	10.0	17.5	17.5	20.0	17.5	20.0
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°	6490.2	6490.2	6490.2	6490.2	6490.2	6490.2	6490.2	6490.2	6490.2	6490.2	6490.2
2.5°	6540.2	6552.7	6505.1	6437.5	6364.9	6292.3	6189.6	6096.8	6041.7	6074.3	5994.1
5°	6657.9	6647.9	6522.7	6317.3	6044.3	5716.1	5390.5	5112.4	5022.3	4887.1	4872.0
7.5°	6820.8	6793.3	6527.7	6056.8	5440.6	4824.4	4223.2	3825.0	3597.0	3404.1	3409.2
10°	7048.8	6968.5	6470.1	5598.4	4584.0	3654.6	2888.2	2362.1	2134.1	2061.5	2003.9
12.5°	7284.2	7128.9	6309.8	4979.7	3569.5	2497.3	1755.9	1435.3	1295.1	1249.9	1244.9
15°	7494.6	7249.1	6029.2	4235.8	2595.1	1595.6	1197.3	1092.1	1074.6	1077.1	1074.6
17.5°	7702.5	7344.3	5641.0	3446.7	1763.4	1144.8	1029.5	1004.5	1012.0	1022.0	1019.5
20°	7875.3	7364.3	5145.0	2630.1	1247.5	1004.5	966.9	961.9	969.4	976.9	976.9
22.5°	8063.2	7379.4	4556.4	1821.0	1019.5	934.4	914.3	914.3	924.3	934.4	936.8
25°	8203.5	7296.7	3852.5	1307.6	899.3	866.7	856.6	859.2	869.2	874.2	871.7
27.5°	8226.0	7063.7	3106.1	1002.0	816.6	784.1	774.0	784.1	771.5	779.0	774.0
30°	8246.1	6768.2	2349.6	844.1	741.4	691.4	676.3	661.3	651.3	638.7	636.2
32.5°	8308.7	6420.0	1715.8	759.0	671.3	616.2	581.1	538.6	505.9	495.9	493.5
35°	8336.2	6001.7	1260.0	691.4	608.7	548.6	485.9	425.8	378.2	360.7	373.2
37.5°	8441.5	5595.9	976.9	641.3	553.5	478.4	398.3	323.1	278.0	268.0	273.1
40°	8656.8	5155.1	819.1	598.6	505.9	413.3	315.6	243.0	212.9	202.9	200.4
42.5°	9002.6	4716.7	728.9	558.6	458.4	348.2	248.0	190.4	165.3	157.8	157.8
45°	9423.3	4295.8	666.3	516.0	408.3	280.6	195.4	152.8	137.8	132.8	132.8
47.5°	9977.0	3927.6	613.7	473.4	353.2	222.9	157.8	132.8	122.7	125.2	127.7
50°	10538.0	3654.6	556.1	425.8	290.6	182.8	135.2	117.7	115.2	117.7	117.7
52.5°	10961.3	3494.3	478.4	360.7	227.9	152.8	120.3	110.3	107.7	102.7	102.7
55°	11532.5	3459.2	380.7	293.1	180.3	127.7	107.7	100.2	92.7	87.6	85.2
57.5°	12266.4	3499.3	293.1	227.9	140.3	105.2	95.2	82.7	72.7	62.7	62.7
60°	12722.3	3409.2	227.9	175.3	102.7	85.2	72.7	60.1	47.6	40.1	37.6
62.5°	12577.0	3028.4	180.3	130.3	72.7	62.7	47.6	40.1	27.6	20.0	17.5
65°	11828.0	2444.8	145.3	90.2	52.6	37.6	25.1	25.1	12.5	2.5	0.0
67.5°	10352.6	1811.0	115.2	60.1	30.0	17.5	12.5	7.5	0.0	0.0	0.0
70°	8426.4	1307.6	90.2	37.6	17.5	12.5	5.0	2.5	0.0	0.0	0.0
72.5°	5350.4	749.0	70.1	22.5	12.5	5.0	0.0	0.0	0.0	0.0	0.0
75°	2069.0	293.1	47.6	15.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	586.2	137.8	27.6	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	152.8	60.1	15.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	72.7	25.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.6	10.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.0	2.5	0.0	0.0	0.0	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)