

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: P955914

Luminaire Tested: **GALN-SB8D-722-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955914  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-722-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

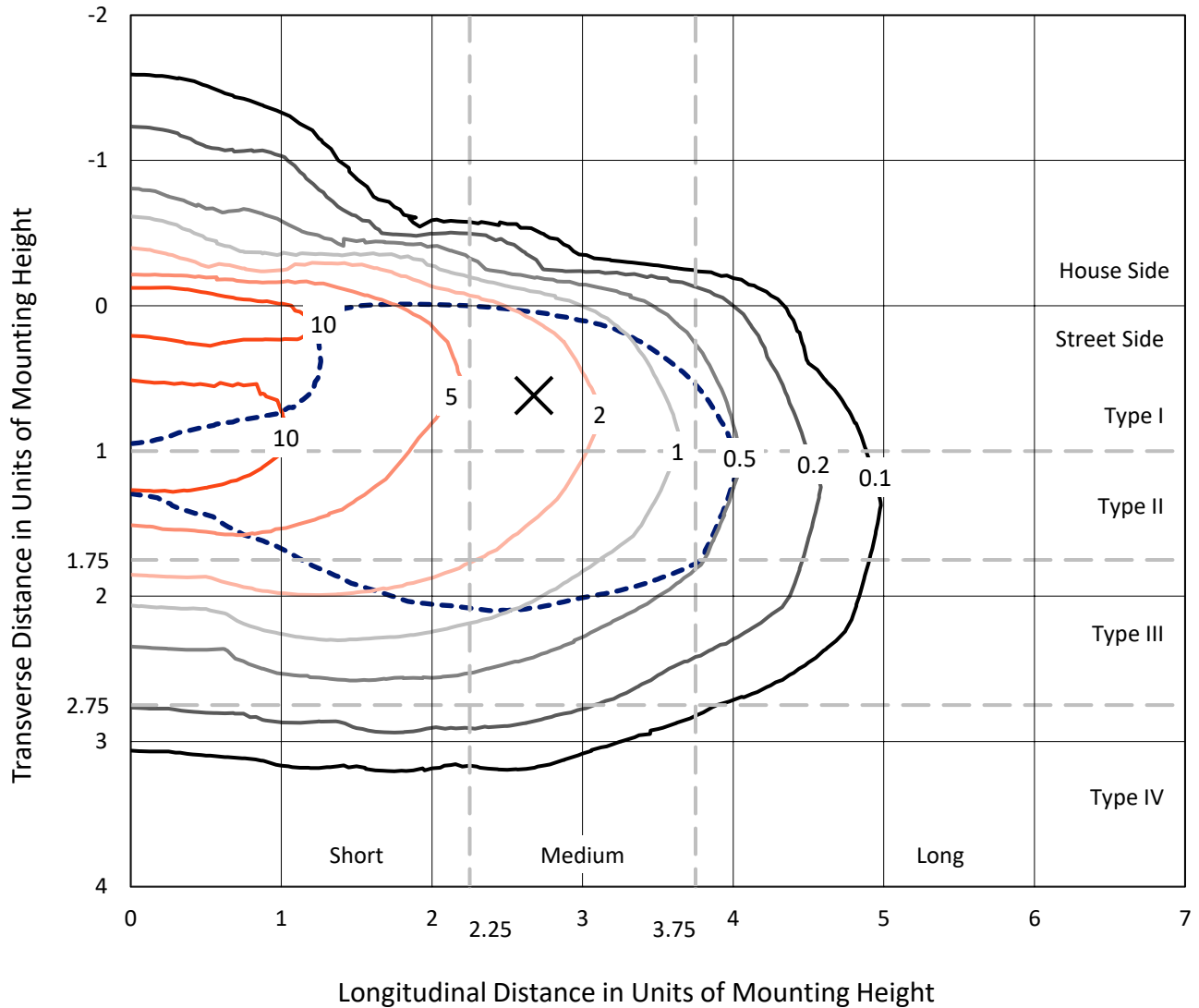
Lumens per Lamp: N/A  
Luminaire Lumens: 56592 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

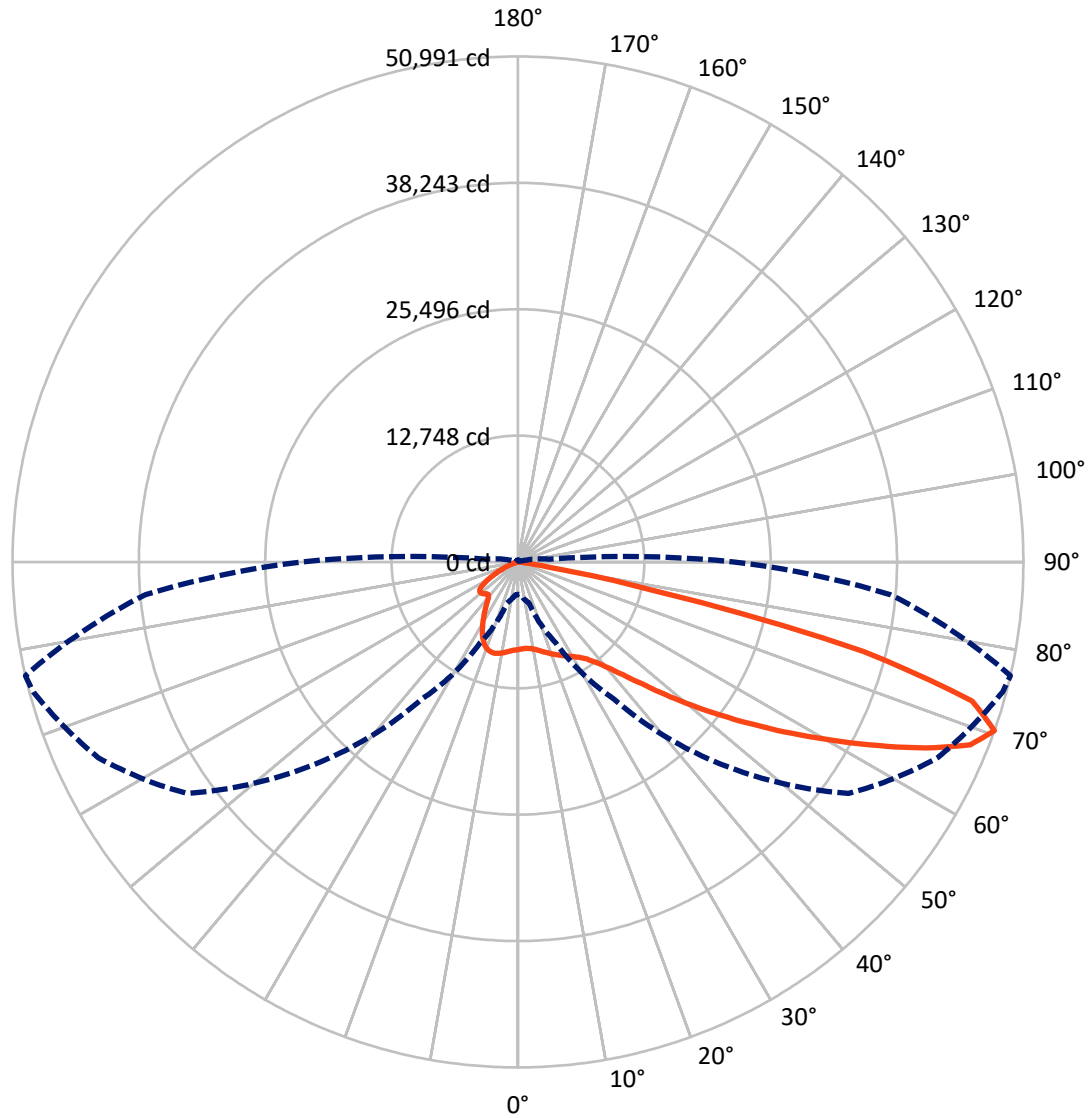
× Max cd  
 - - - 1/2 Max cd



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 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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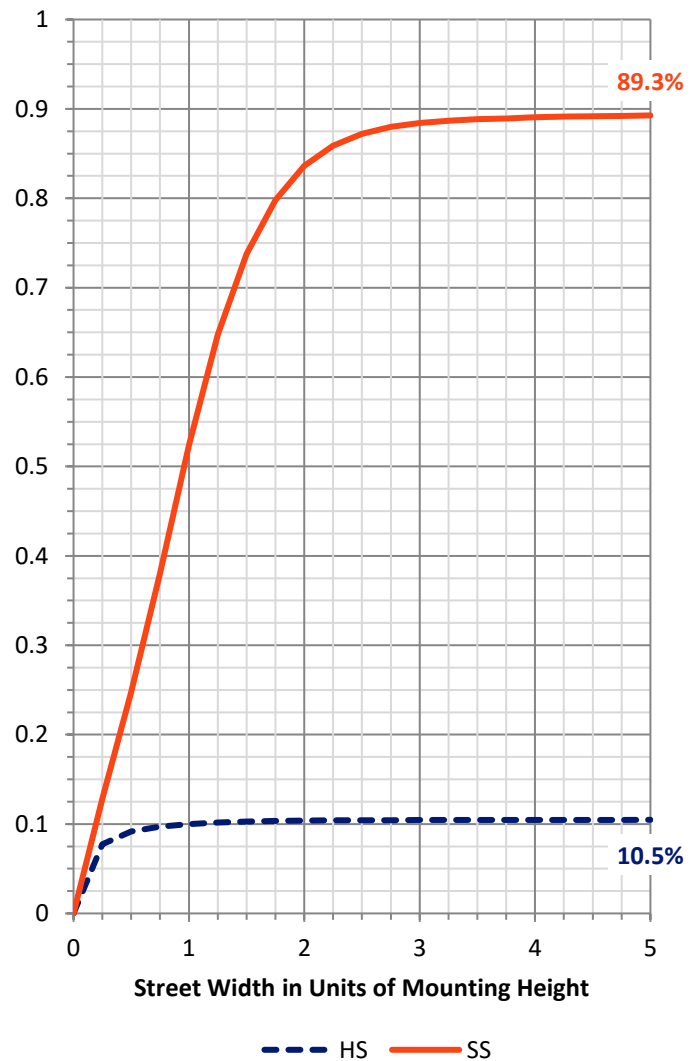
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5965.6	0.0	5965.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	50626.4	0.0	50626.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	56592.0	0.0	56592.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	760.8	1.3
10°-20°	1806.0	3.2
20°-30°	2793.4	4.9
30°-40°	5068.7	9.0
40°-50°	9567.8	16.9
50°-60°	13824.7	24.4
60°-70°	14716.0	26.0
70°-80°	7798.5	13.8
80°-90°	256.1	0.5
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°	56592.0	100.0
0°-180°	56592.0	100.0

**Coefficient of Utilization**



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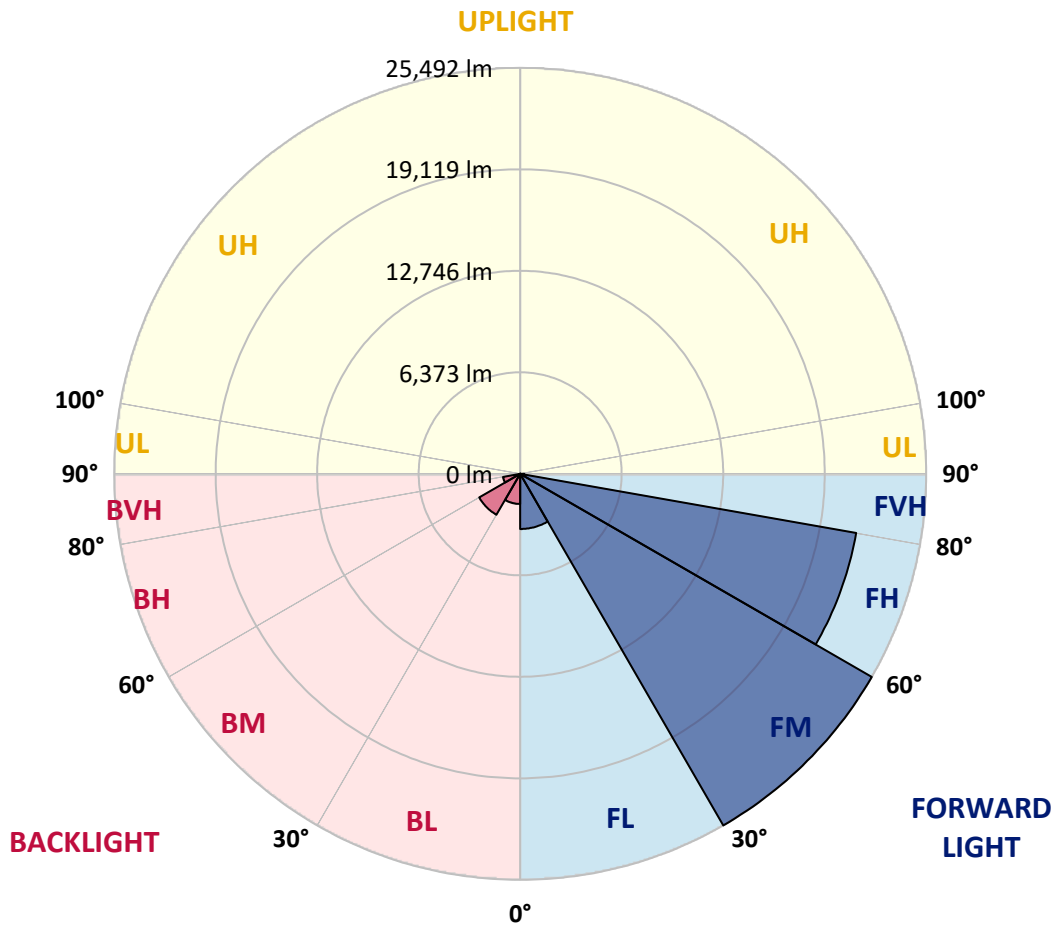
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3464.8	6.1			
FM (30°-60°)	25491.6	45.0			
FH (60°-80°)	21420.9	37.9			G5
FVH (80°-90°)	249.2	0.4			G3/500
BL (0°-30°)	1895.4	3.3	B3/2500		
BM (30°-60°)	2969.7	5.2	B3/5000		
BH (60°-80°)	1093.6	1.9	B3/2500		G3/2500
BVH (80°-90°)	6.9	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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	8827.3	8827.3	8827.3	8827.3	8827.3	8827.3	8827.3	8827.3	8827.3	8827.3	8827.3
2.5°	8287.7	8362.7	8352.0	8402.0	8419.9	8491.4	8562.9	8659.4	8766.6	8763.0	8834.5
5°	7819.5	7894.6	7912.4	7980.3	8066.1	8176.9	8323.4	8516.4	8716.5	8748.7	8891.7
7.5°	7265.6	7344.2	7390.7	7526.5	7683.7	7912.4	8151.9	8434.2	8766.6	8813.0	9088.2
10°	6711.6	6783.1	6843.9	7036.8	7287.0	7626.5	8016.1	8423.5	8870.2	8938.1	9327.7
12.5°	6368.5	6436.4	6504.3	6672.3	6983.2	7397.8	7926.7	8473.5	9041.8	9138.3	9652.9
15°	6247.0	6307.8	6361.4	6511.5	6801.0	7272.7	7908.9	8577.2	9259.8	9388.4	10046.0
17.5°	6264.9	6297.1	6332.8	6447.2	6729.5	7215.5	7941.0	8755.9	9517.1	9631.4	10439.1
20°	6368.5	6386.4	6390.0	6468.6	6718.8	7208.4	8005.4	8927.4	9760.1	9913.8	10828.7
22.5°	6500.8	6507.9	6500.8	6554.4	6786.7	7262.0	8091.1	9134.7	10031.7	10174.7	11221.8
25°	7119.0	6983.2	6811.7	6708.1	6901.0	7365.6	8219.8	9413.4	10328.3	10467.7	11604.2
27.5°	9038.2	8648.6	8033.9	7344.2	7136.9	7515.7	8398.5	9695.8	10628.5	10753.6	12015.2
30°	12154.6	11643.5	10599.9	9045.3	7894.6	7830.2	8630.8	9978.1	10946.6	11082.4	12454.8
32.5°	15278.1	15153.0	13948.6	11797.2	9599.3	8530.7	9016.7	10360.5	11368.3	11475.5	13048.0
35°	18437.3	18183.6	17197.2	15070.8	12226.0	9956.7	9660.0	10860.8	11922.3	12043.8	13912.9
37.5°	20856.8	20703.1	20092.0	18340.8	15342.4	12158.1	10760.8	11636.4	12726.4	12862.2	15020.8
40°	22993.9	22922.5	22715.2	21560.8	18826.9	15038.6	12472.6	12837.2	13841.4	14002.2	16378.8
42.5°	24673.6	24841.6	24959.5	24637.9	22418.6	18326.5	14774.2	14524.0	15396.0	15560.4	18108.5
45°	26392.6	26449.8	26925.1	27389.7	25985.2	21764.6	17368.8	16500.3	17329.4	17533.2	20181.3
47.5°	27497.0	27725.7	28562.0	29380.4	28983.7	25174.0	20156.3	18834.0	19570.2	19952.6	22504.3
50°	27579.2	28011.6	29162.4	30588.3	31167.3	28419.0	23186.9	21492.9	22275.6	22697.3	24984.6
52.5°	26210.4	26882.3	28665.6	30752.7	32346.6	31167.3	26321.2	24151.9	25156.1	25706.5	27557.7
55°	20095.6	20974.7	26796.5	29859.2	32393.1	33250.8	29373.2	26921.6	28365.4	28987.2	30338.1
57.5°	17508.1	17951.3	21067.7	28308.2	31531.8	34090.6	32132.2	29559.0	31857.0	32629.0	32964.9
60°	14566.9	15149.4	17669.0	25770.8	30363.2	34172.8	34569.5	32961.3	35641.7	36510.1	35373.6
62.5°	9899.5	10532.0	13037.3	21410.7	28765.7	34133.5	36567.3	36463.7	39848.1	40780.8	37414.3
65°	6132.7	6529.4	8180.5	17483.1	26532.0	34176.4	38658.0	40716.5	44286.7	45233.8	38993.9
67.5°	4846.1	5028.4	5889.7	13423.3	22683.0	33211.5	40745.1	44715.6	48464.5	49215.0	39476.4
70°	3255.7	3366.5	4285.0	8998.9	16875.6	28758.5	40705.8	46724.1	50616.0	50991.2	37718.1
72.5°	1715.4	1801.2	2505.2	4167.1	10192.5	20442.2	34312.2	44322.5	48475.3	47910.6	32239.4
75°	857.7	1000.7	1686.8	2115.7	4352.9	11400.5	21307.1	34944.8	38154.1	35966.9	20685.3
77.5°	650.4	786.2	1393.8	1393.8	1515.3	3838.3	9023.9	19059.2	17579.6	14638.4	6071.9
80°	414.6	536.1	1218.7	1054.3	632.6	975.7	2351.6	5339.3	3734.6	2841.2	1104.3
82.5°	243.0	350.2	1015.0	696.9	353.8	361.0	664.7	1136.5	968.5	754.1	339.5
85°	96.5	228.7	696.9	275.2	139.4	89.3	200.1	243.0	200.1	150.1	85.8
87.5°	0.0	53.6	121.5	0.0	10.7	7.1	14.3	17.9	17.9	14.3	28.6
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°	8827.3	8827.3	8827.3	8827.3	8827.3	8827.3	8827.3	8827.3	8827.3	8827.3	8827.3
2.5°	8866.6	8873.8	8895.2	8898.8	8848.8	8784.4	8759.4	8748.7	8705.8	8702.2	8709.4
5°	8973.9	9006.0	8973.9	8880.9	8659.4	8348.4	8112.6	7919.6	7744.5	7690.9	7658.7
7.5°	9188.3	9220.4	9124.0	8759.4	8201.9	7583.6	7026.1	6633.0	6279.2	6147.0	6093.4
10°	9495.6	9538.5	9234.7	8498.5	7512.2	6518.6	5575.2	4910.4	4392.2	4181.4	4092.0
12.5°	9881.6	9899.5	9295.5	8101.8	6615.1	5196.3	3859.7	3148.5	2687.5	2516.0	2462.4
15°	10306.9	10281.9	9302.6	7562.2	5392.9	3673.9	2519.5	2069.2	1883.4	1826.2	1826.2
17.5°	10753.6	10650.0	9159.7	6783.1	4052.7	2512.4	1869.1	1761.9	1729.7	1715.4	1711.9
20°	11193.2	10960.9	8898.8	5764.6	2909.1	1876.3	1697.6	1665.4	1647.5	1640.4	1633.2
22.5°	11593.5	11196.8	8452.1	4581.6	2112.1	1658.3	1604.6	1576.1	1543.9	1529.6	1526.0
25°	11983.0	11332.6	7823.1	3477.3	1690.4	1551.0	1508.2	1454.5	1411.7	1393.8	1386.6
27.5°	12361.8	11418.3	7036.8	2573.1	1508.2	1451.0	1372.3	1297.3	1265.1	1258.0	1250.8
30°	12765.7	11446.9	6143.4	1919.1	1397.4	1325.9	1211.5	1125.8	1107.9	1111.5	1111.5
32.5°	13258.9	11489.8	5242.8	1572.5	1304.4	1175.8	1040.0	950.6	936.3	950.6	947.1
35°	13848.5	11575.6	4374.4	1447.4	1222.2	1022.1	875.6	800.5	786.2	797.0	793.4
37.5°	14649.1	11715.0	3563.1	1422.4	1154.3	893.5	736.2	675.5	675.5	679.0	675.5
40°	15714.1	12086.7	2837.6	1404.5	1118.6	797.0	621.8	596.8	607.5	614.7	614.7
42.5°	17011.4	12876.5	2348.0	1383.1	1079.3	754.1	564.7	553.9	571.8	579.0	579.0
45°	18465.9	13877.1	2176.5	1347.3	1043.6	782.7	539.6	525.4	546.8	550.4	553.9
47.5°	19970.5	14856.4	2155.0	1308.0	1007.8	825.6	532.5	500.3	525.4	528.9	532.5
50°	21492.9	15496.1	2176.5	1247.3	950.6	825.6	536.1	475.3	496.8	507.5	511.1
52.5°	23026.1	15789.1	2162.2	1115.0	850.6	775.5	536.1	453.9	475.3	482.5	482.5
55°	24512.8	15731.9	1944.2	918.5	721.9	686.2	521.8	436.0	450.3	453.9	453.9
57.5°	25688.6	14935.0	1540.3	714.8	586.1	571.8	475.3	414.6	425.3	421.7	421.7
60°	26303.3	13183.8	1100.7	550.4	461.0	450.3	418.1	386.0	393.1	375.3	371.7
62.5°	26310.4	10868.0	736.2	436.0	368.1	357.4	357.4	346.7	339.5	303.8	293.1
65°	25749.4	8298.4	489.6	346.7	296.6	278.8	300.2	296.6	271.6	221.6	214.4
67.5°	24477.1	5439.4	371.7	271.6	228.7	218.0	239.4	250.2	232.3	185.8	182.3
70°	<b>21861.0</b>	<b>3166.4</b>	<b>307.3</b>	<b>210.9</b>	<b>171.5</b>	<b>160.8</b>	<b>193.0</b>	<b>214.4</b>	<b>193.0</b>	<b>150.1</b>	<b>143.0</b>
72.5°	18158.6	1708.3	250.2	157.2	117.9	107.2	153.7	175.1	153.7	110.8	107.2
75°	11782.9	914.9	193.0	103.6	60.8	67.9	114.4	128.7	107.2	71.5	64.3
77.5°	3956.2	403.8	121.5	50.0	28.6	28.6	67.9	78.6	50.0	25.0	21.4
80°	882.7	168.0	50.0	21.4	10.7	10.7	14.3	14.3	7.1	0.0	0.0
82.5°	289.5	67.9	21.4	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	110.8	25.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	42.9	3.6	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)