

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: P652248

Luminaire Tested: **GALN-SA2B-840-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652248  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7065.3 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

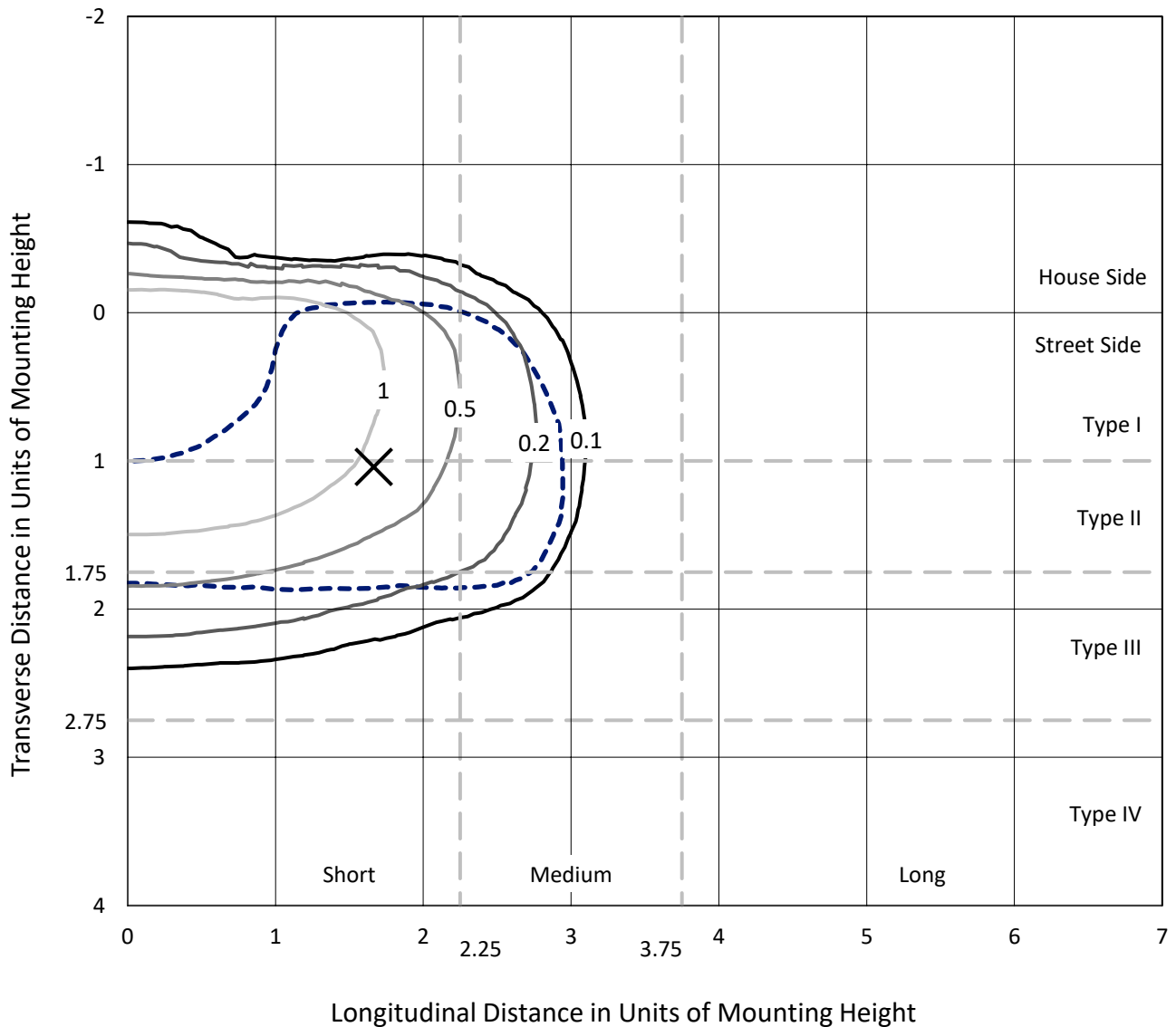
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

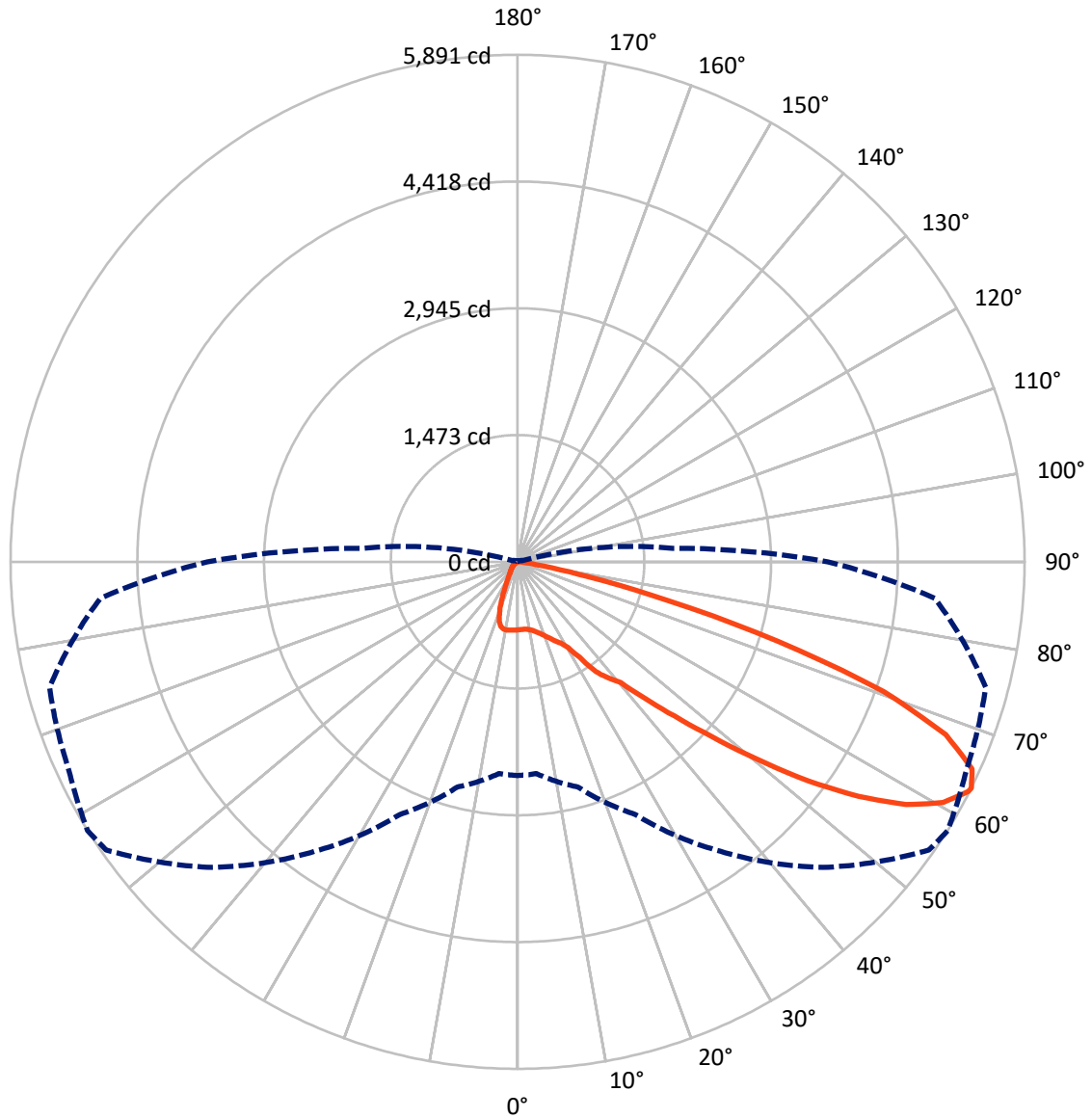
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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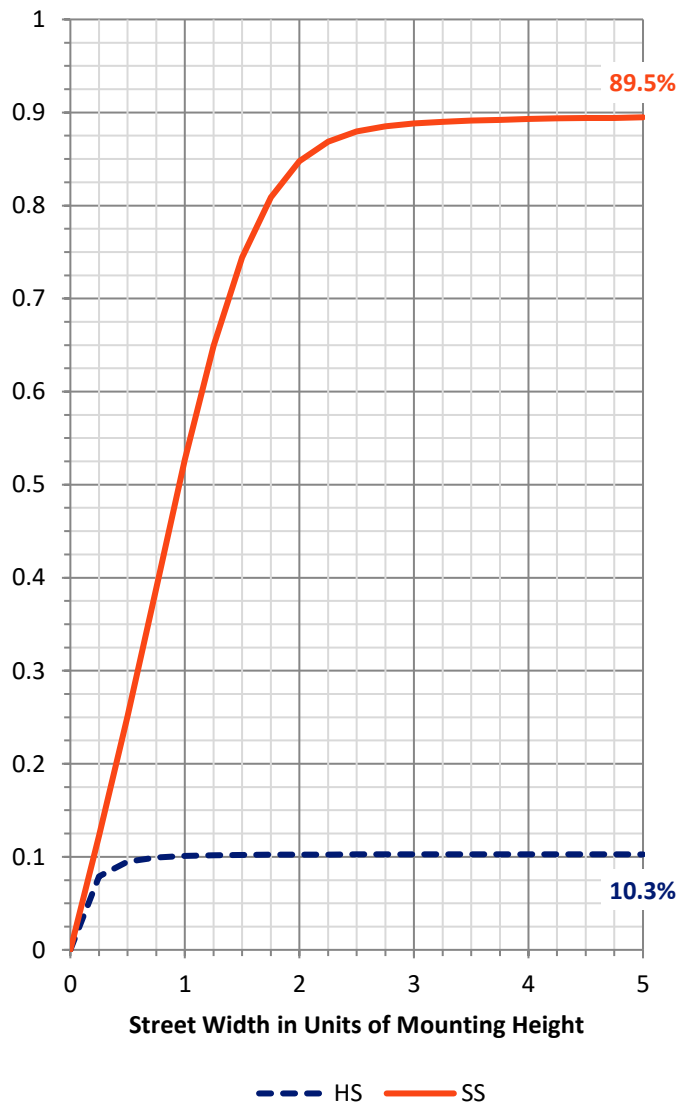
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	731.6	0.0	731.6
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	6333.7	0.0	6333.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	7065.3	0.0	7065.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.0	1.0
10°-20°	201.7	2.9
20°-30°	350.0	5.0
30°-40°	643.2	9.1
40°-50°	1210.8	17.1
50°-60°	2071.0	29.3
60°-70°	1983.0	28.1
70°-80°	505.7	7.2
80°-90°	25.9	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°	7065.3	100.0
0°-180°	7065.3	100.0

**Coefficient of Utilization**

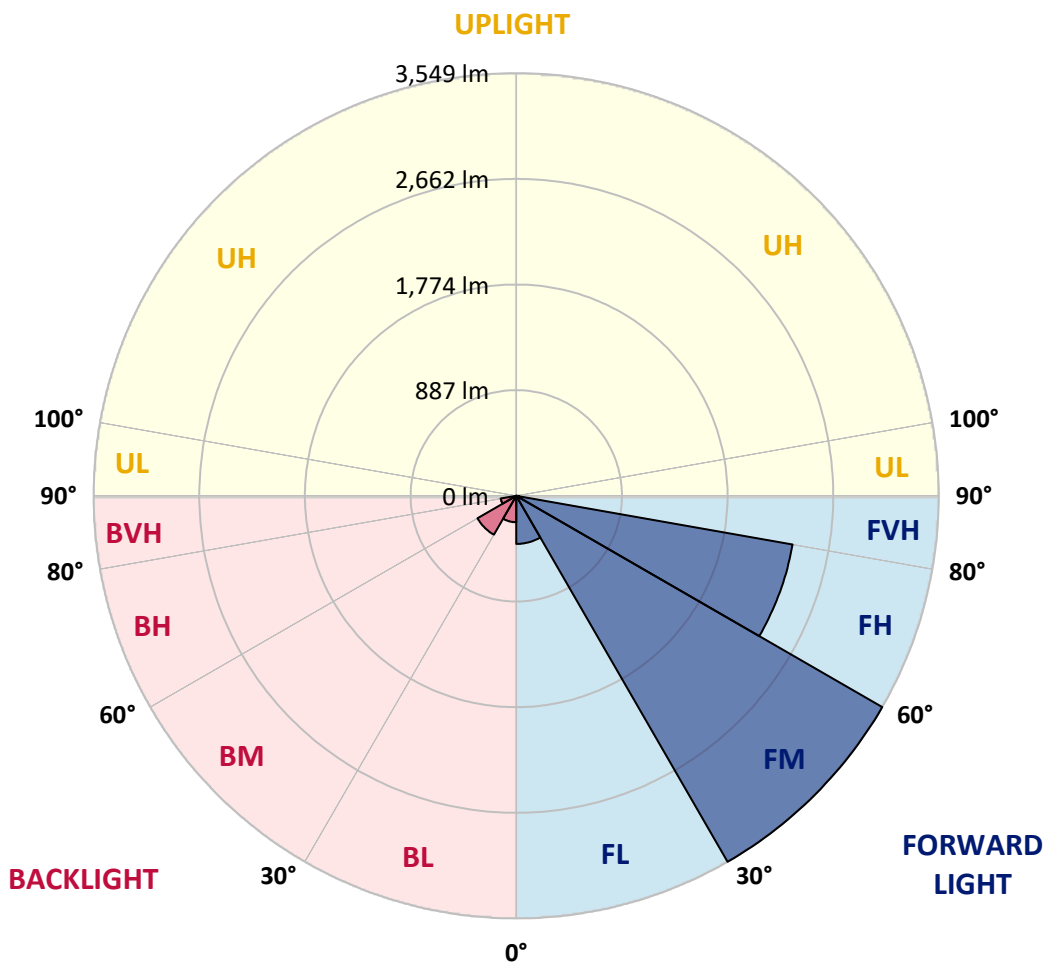


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	403.9	5.7			
FM (30°-60°)	3548.7	50.2			
FH (60°-80°)	2356.2	33.3			G2/5000
FVH (80°-90°)	24.9	0.4			G1/100
BL (0°-30°)	221.9	3.1	B1/500		
BM (30°-60°)	376.3	5.3	B1/1000		
BH (60°-80°)	132.4	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	791.0	791.0	791.0	791.0	791.0	791.0	791.0	791.0	791.0	791.0	791.0
2.5°	771.3	774.0	776.6	777.7	781.4	785.2	787.8	787.3	791.5	793.7	793.7
5°	740.4	740.4	747.4	753.7	764.4	775.0	785.2	787.3	795.2	802.7	805.3
7.5°	714.3	715.9	721.3	733.0	747.4	766.0	786.2	791.0	804.8	821.3	828.2
10°	702.2	703.2	710.1	722.3	740.4	766.0	794.2	803.2	824.5	850.6	860.1
12.5°	699.5	701.1	708.0	721.8	742.6	773.5	811.7	821.3	852.2	885.7	900.0
15°	704.3	705.3	712.2	727.1	750.0	786.8	835.1	848.4	885.2	923.9	942.6
17.5°	721.3	720.2	725.0	737.2	762.8	803.2	863.3	879.3	922.4	975.6	987.8
20°	793.7	786.8	782.5	771.9	782.0	826.6	897.3	920.8	974.0	1028.2	1036.7
22.5°	949.5	934.1	903.7	862.3	830.3	858.6	938.3	965.5	1034.1	1087.2	1087.2
25°	1147.9	1128.2	1097.9	1007.5	929.3	911.2	984.6	1018.6	1099.5	1153.3	1135.7
27.5°	1396.3	1380.9	1321.9	1216.5	1096.8	1003.2	1038.3	1069.8	1157.5	1222.4	1185.6
30°	1598.5	1591.0	1542.6	1448.5	1316.5	1179.8	1138.3	1159.1	1234.6	1309.6	1271.8
32.5°	1769.2	1769.2	1719.8	1632.0	1508.6	1387.3	1308.0	1322.9	1395.2	1481.9	1411.7
35°	1957.0	1950.6	1910.7	1827.2	1688.9	1581.9	1549.5	1569.7	1635.2	1699.5	1526.7
37.5°	2154.3	2152.2	2110.7	2029.8	1917.1	1782.5	1706.5	1711.8	1745.2	1784.6	1661.2
40°	2368.7	2371.9	2317.6	2267.6	2161.2	2023.4	1877.7	1844.2	1875.6	1986.8	1909.7
42.5°	2621.9	2614.4	2591.0	2522.9	2437.3	2354.9	2179.9	2167.6	2195.3	2314.4	2230.9
45°	2916.1	2926.7	2886.2	2848.5	2791.0	2722.4	2576.2	2554.9	2585.1	2770.3	2651.7
47.5°	3210.8	3200.6	3226.7	3219.8	3250.6	3199.6	3070.3	3026.7	3099.6	3275.1	3100.6
50°	3435.2	3446.4	3500.7	3579.9	3712.3	3741.1	3617.1	3602.3	3634.7	3747.4	3502.3
52.5°	3581.0	3618.2	3703.3	3907.0	4145.9	4331.5	4237.4	4229.4	4216.1	4246.4	3886.3
55°	3676.2	3713.9	3825.1	4125.1	4536.3	4837.9	4842.7	4808.7	4720.9	4699.1	4245.4
57.5°	3617.6	3625.1	3783.7	4184.7	4752.8	5199.1	5355.5	5321.4	5159.2	5076.8	4562.3
60°	3251.7	3267.1	3487.9	3959.2	4658.6	5317.1	5695.4	5679.9	5502.3	5409.2	4809.2
62.5°	2603.2	2648.0	2875.1	3400.7	4220.9	5118.2	5833.2	5876.7	5738.5	5610.3	4886.9
63°	2484.1	2469.8	2709.6	3237.8	4104.9	5019.8	5835.3	5890.6	5749.1	5629.4	4865.6
65°	1838.8	1882.0	2037.8	2553.3	3416.1	4561.8	5703.9	5801.8	5709.7	5544.9	4630.0
67.5°	1032.5	1030.3	1202.7	1670.8	2391.0	3578.3	5157.6	5364.5	5345.4	4975.7	3837.9
70°	505.4	513.3	584.1	866.0	1386.7	2468.7	4285.7	4509.2	4516.1	3908.1	2653.8
72.5°	228.8	232.5	283.0	421.8	712.7	1314.4	2953.3	3166.6	3127.3	2490.5	1465.4
75°	120.8	128.8	155.8	212.3	343.6	542.0	1606.4	1812.9	1730.4	1137.8	539.4
77.5°	89.4	92.0	105.9	135.1	184.0	211.2	693.1	824.5	772.4	411.8	178.7
80°	65.4	67.5	78.7	95.7	116.0	107.5	261.2	299.5	268.6	139.9	54.7
82.5°	39.9	40.5	57.4	71.3	72.9	60.1	86.2	92.6	96.8	78.7	29.8
85°	14.4	18.1	38.9	51.6	43.1	30.4	36.2	39.9	43.6	50.0	17.6
87.5°	1.6	2.1	18.6	25.0	12.2	11.2	13.3	14.9	16.0	18.6	8.5
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°	791.0	791.0	791.0	791.0	791.0	791.0	791.0	791.0	791.0	791.0	791.0
2.5°	795.8	797.9	796.3	793.7	793.1	791.5	788.4	788.4	788.4	789.4	788.4
5°	807.4	809.0	805.3	800.0	794.2	786.8	778.8	774.0	773.5	772.4	769.7
7.5°	829.8	831.9	823.4	810.6	794.7	776.6	759.6	743.6	736.2	730.3	730.3
10°	862.3	864.4	847.4	824.5	792.6	755.9	715.4	678.8	650.0	636.7	633.5
12.5°	901.1	902.1	874.0	834.1	781.4	710.6	624.5	544.1	488.3	462.8	460.1
15°	943.7	936.2	898.9	837.8	749.5	617.5	468.6	370.2	312.3	295.2	301.6
17.5°	986.7	972.9	918.1	831.9	677.7	468.6	314.9	252.6	234.6	229.8	229.8
20°	1027.2	1008.0	931.9	806.4	553.2	322.9	233.5	218.7	215.5	212.3	212.8
22.5°	1067.6	1038.3	944.2	749.5	412.3	230.9	209.1	204.3	200.0	195.8	195.2
25°	1106.9	1066.6	949.0	644.2	280.9	198.4	191.0	184.6	176.1	171.3	170.2
27.5°	1147.9	1100.5	945.8	511.2	204.8	177.7	170.2	161.1	151.0	142.5	142.5
30°	1226.6	1165.5	934.6	367.6	172.3	156.4	146.8	132.5	121.3	112.8	112.3
32.5°	1334.1	1250.1	896.3	258.5	153.2	137.8	123.4	107.5	95.7	89.4	89.4
35°	1429.9	1335.2	824.5	190.4	137.8	119.7	102.1	86.7	77.6	73.4	71.8
37.5°	1575.6	1459.6	725.5	154.8	122.9	103.7	85.6	71.3	63.8	60.6	60.6
40°	1794.2	1611.8	604.3	135.7	108.5	88.3	71.3	60.1	54.2	50.5	50.5
42.5°	2065.5	1797.9	481.4	121.8	95.2	76.0	59.5	51.0	45.8	43.1	42.6
45°	2407.0	1994.2	370.8	109.1	84.6	64.9	50.5	43.1	37.8	36.2	36.7
47.5°	2763.4	2167.1	287.2	97.9	73.4	54.7	43.1	37.3	33.5	31.4	31.4
50°	3067.6	2286.3	218.1	85.1	64.9	46.3	37.8	33.5	30.4	29.3	28.8
52.5°	3321.9	2320.8	167.0	73.9	56.9	39.9	33.5	30.4	27.7	26.1	26.1
55°	3538.4	2290.5	130.9	62.2	47.9	34.6	29.8	27.2	24.0	22.4	21.8
57.5°	3665.0	2193.2	100.0	51.6	38.9	28.8	26.1	22.9	19.2	16.5	16.5
60°	3728.8	2051.6	76.6	42.6	29.8	22.9	21.3	17.0	13.3	11.2	10.6
62.5°	3652.2	1863.9	57.9	33.5	22.4	17.0	14.4	12.2	8.5	6.4	6.4
63°	3604.9	1809.7	55.8	31.9	20.8	16.0	13.3	11.2	7.5	5.9	5.3
65°	3286.3	1572.9	45.8	25.6	16.5	11.2	9.1	8.0	5.3	2.7	2.1
67.5°	2609.6	1203.2	36.2	19.2	11.7	8.0	5.3	4.8	1.6	0.0	0.0
70°	1764.4	777.2	28.2	13.8	8.0	4.8	2.7	2.1	0.5	0.0	0.0
72.5°	920.2	398.4	21.8	10.1	4.8	3.2	1.6	0.5	0.0	0.0	0.0
75°	325.6	135.7	16.0	6.4	3.2	1.6	0.5	0.0	0.0	0.0	0.0
77.5°	98.4	50.5	10.1	4.8	2.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	34.6	18.6	5.9	3.2	1.6	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	17.0	9.1	3.7	2.7	1.6	0.5	0.0	0.0	0.0	0.0	0.0
85°	9.6	5.9	3.2	2.7	1.6	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	4.3	3.2	2.7	2.1	1.1	0.5	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)