

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: P200557

Luminaire Tested: **GPC-AF-01-LED-E1-5WQ-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-01-LED-E1-5WQ-8030-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4415 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

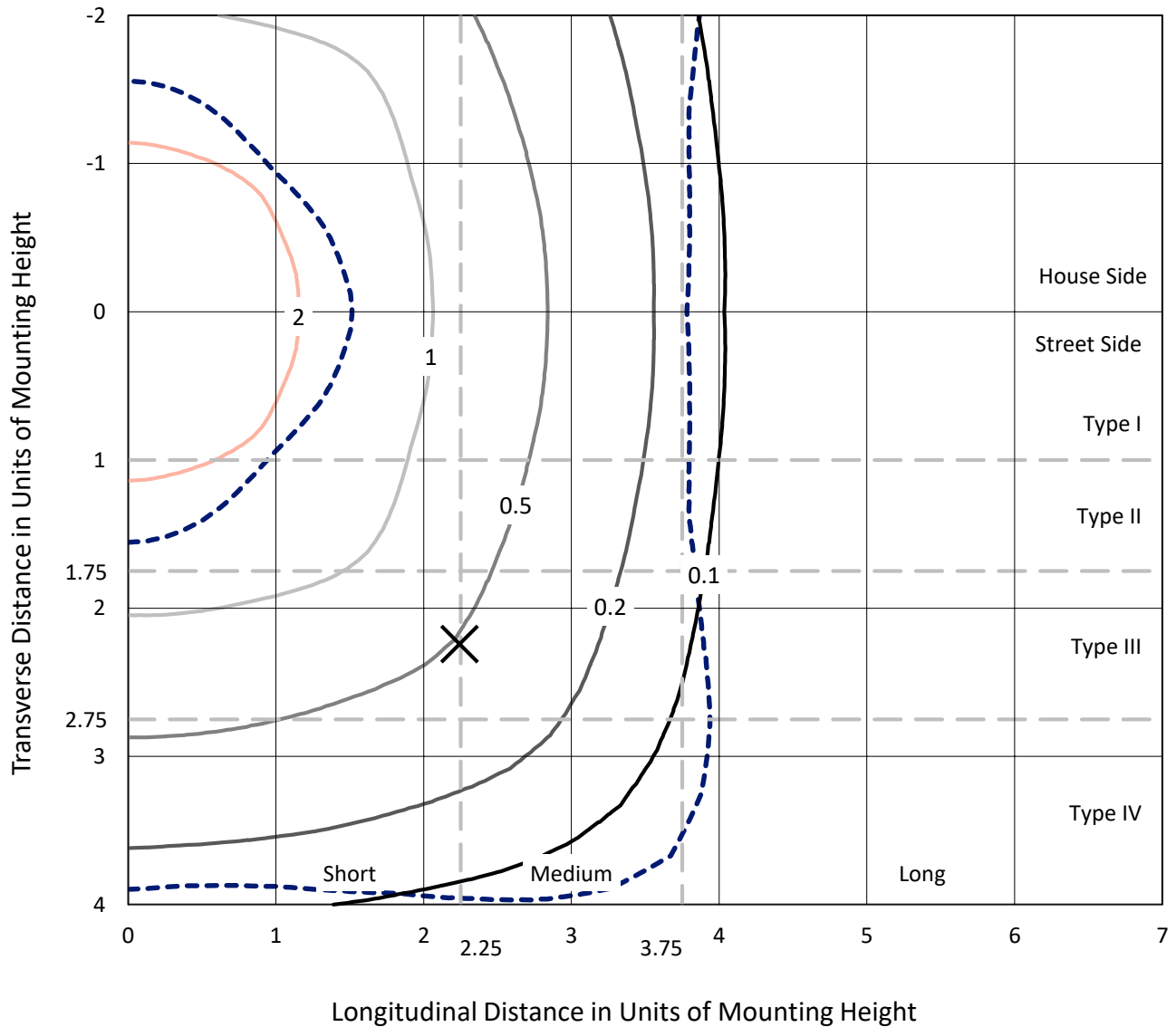
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

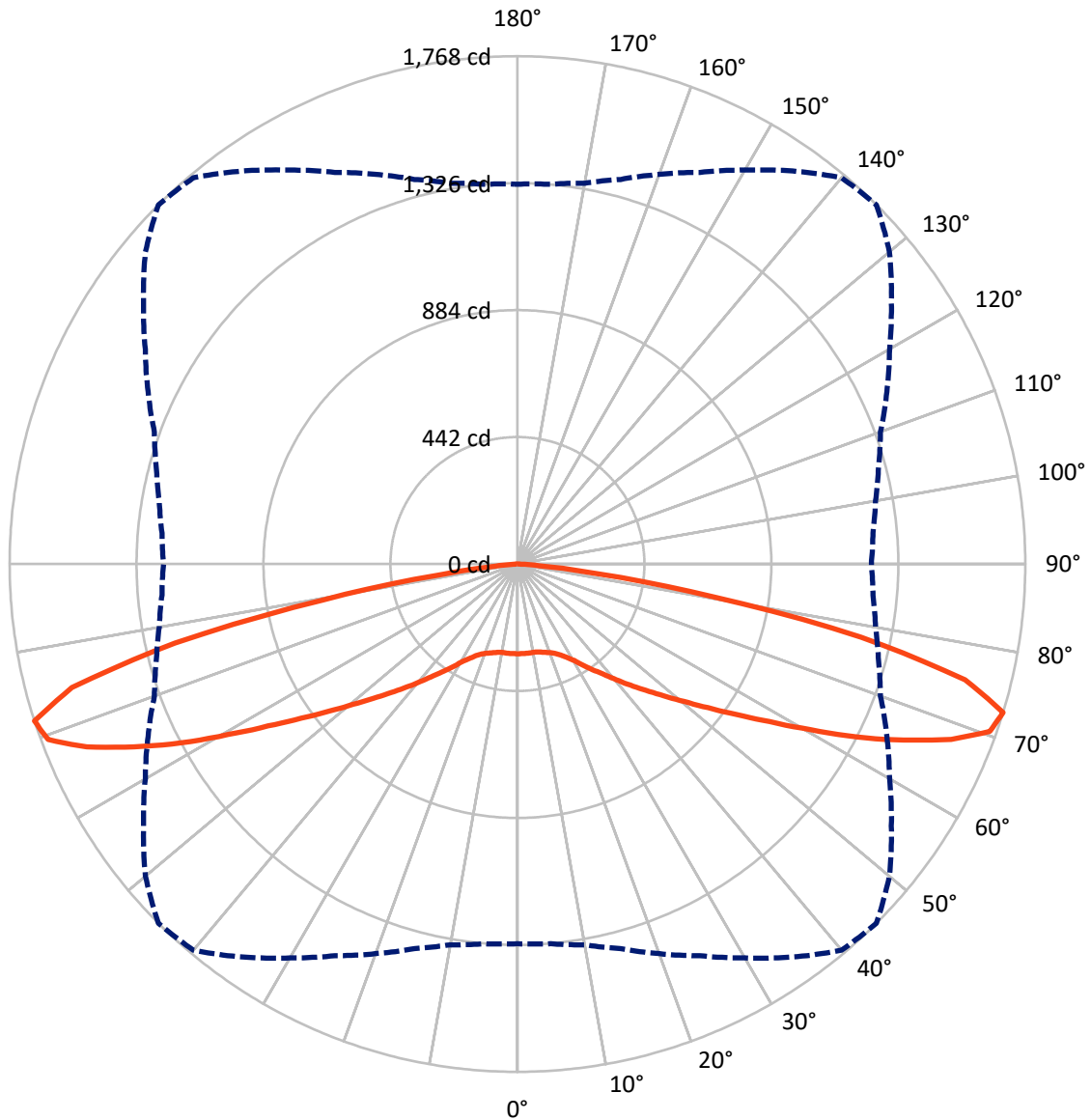
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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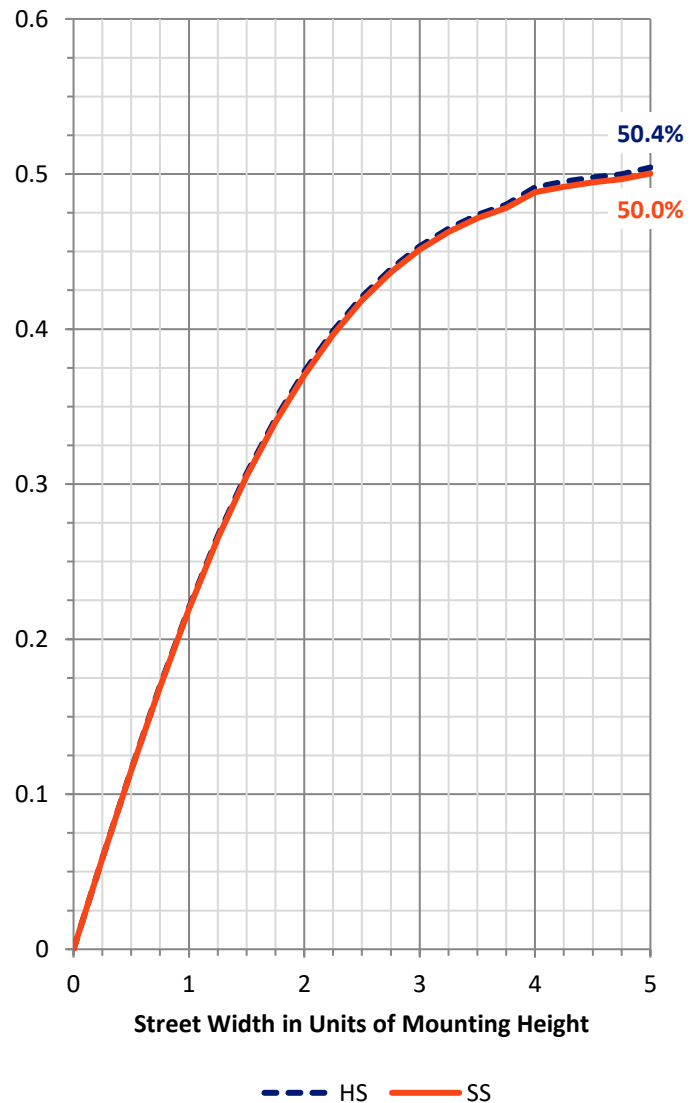
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2207.5	0.0	2207.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2207.5	0.0	2207.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4415.0	0.0	4415.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.9	0.7
10°-20°	90.7	2.1
20°-30°	165.7	3.8
30°-40°	285.7	6.5
40°-50°	488.4	11.1
50°-60°	791.6	17.9
60°-70°	1313.2	29.7
70°-80°	1156.6	26.2
80°-90°	93.3	2.1
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°	4415.0	100.0
0°-180°	4415.0	100.0



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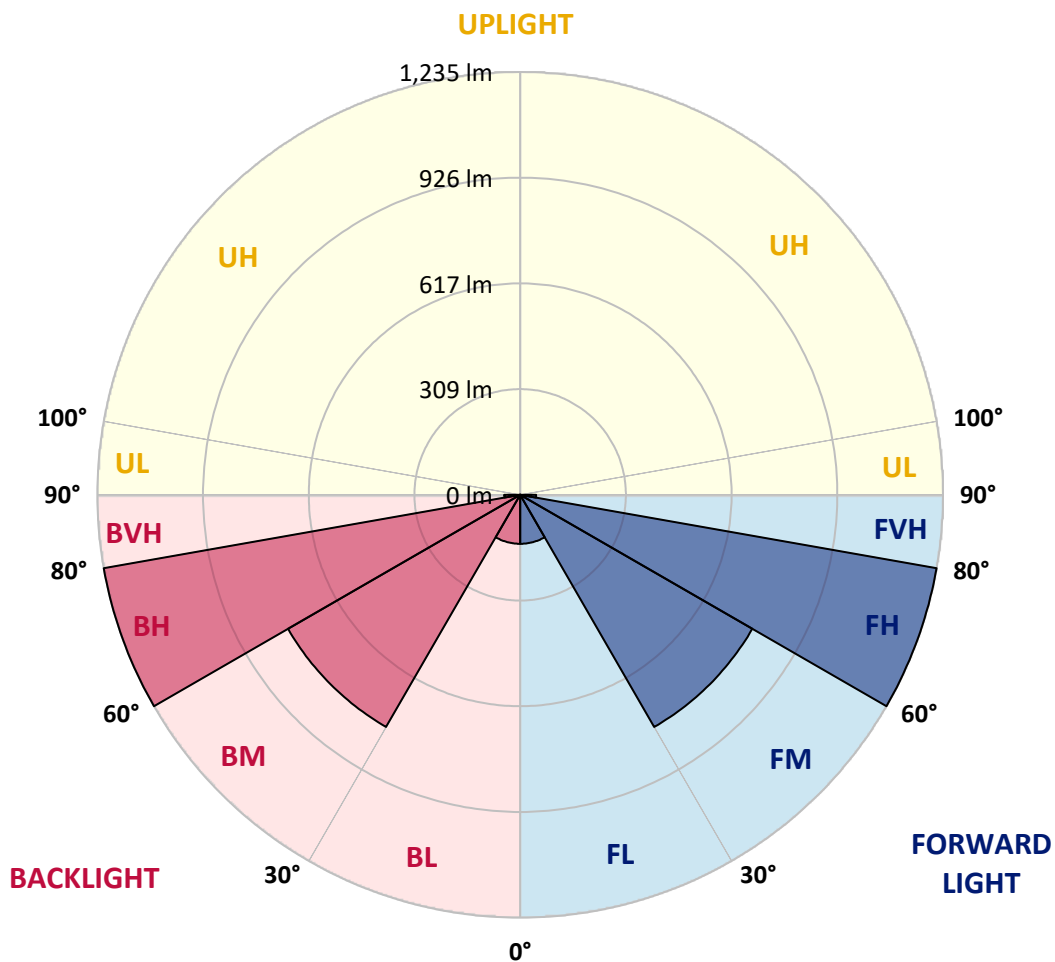
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	143.1	3.2			
FM (30°-60°)	782.8	17.7			
FH (60°-80°)	1234.9	28.0			G1/1800
FVH (80°-90°)	46.6	1.1			G1/100
BL (0°-30°)	143.1	3.2	B1/500		
BM (30°-60°)	782.8	17.7	B1/1000		
BH (60°-80°)	1234.9	28.0	B3/2500		G1/1800
BVH (80°-90°)	46.6	1.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7
2.5°	312.7	312.9	313.1	312.9	312.9	312.7	312.4	312.7	312.4	312.0	312.2
5°	313.7	314.1	314.1	313.7	313.9	313.7	313.3	313.5	313.1	312.4	312.4
7.5°	314.9	315.1	315.1	314.7	314.9	314.5	314.1	313.9	313.5	312.7	312.0
10°	316.7	316.9	316.7	316.3	316.3	315.7	314.7	314.3	313.5	312.2	311.6
12.5°	318.7	318.9	318.7	318.3	318.1	317.1	316.3	315.7	315.1	314.1	313.1
15°	321.6	322.0	321.6	320.8	320.1	319.3	318.9	319.1	319.3	318.5	317.5
17.5°	326.8	327.0	326.4	324.6	323.8	323.0	323.0	323.4	324.0	323.6	322.6
20°	336.5	335.9	334.5	332.3	331.3	329.9	329.7	329.9	329.9	329.7	328.9
22.5°	348.7	348.3	346.5	343.6	342.2	341.4	340.2	339.2	339.0	338.4	337.6
25°	363.3	363.1	360.8	358.4	357.4	356.4	355.4	354.0	352.7	351.3	350.5
27.5°	381.9	381.1	377.9	376.6	375.2	374.6	373.2	371.6	370.6	368.7	367.7
30°	402.4	402.4	399.7	399.3	399.3	397.9	396.3	393.4	391.6	389.8	389.2
32.5°	422.8	423.0	420.4	421.2	421.8	422.8	423.2	422.2	421.0	420.8	419.6
35°	452.4	451.6	448.9	449.5	449.3	449.1	449.1	451.4	451.8	452.2	449.7
37.5°	489.0	489.0	486.4	486.4	485.2	484.0	482.3	483.8	486.0	486.6	485.0
40°	530.9	532.4	529.1	528.9	529.3	525.5	523.6	525.9	527.3	529.7	527.9
42.5°	580.3	579.3	576.1	575.7	573.5	572.2	570.6	572.5	574.7	576.3	576.9
45°	627.7	626.9	623.3	623.3	621.0	620.0	620.8	623.9	624.9	627.1	629.4
47.5°	674.5	673.5	671.1	672.1	672.3	674.1	676.7	679.6	682.4	685.4	686.5
50°	722.3	722.5	719.9	722.3	725.3	730.4	737.5	742.1	748.0	751.9	753.1
52.5°	765.8	766.6	769.5	775.1	781.2	791.1	803.3	814.6	824.4	830.8	830.4
55°	818.1	819.3	826.2	835.9	845.8	860.8	878.8	898.9	915.1	924.4	918.5
57.5°	884.9	887.5	895.2	908.4	923.2	942.6	967.3	997.5	1022.6	1035.1	1025.6
60°	976.6	978.2	987.6	1002.1	1020.0	1044.1	1077.1	1117.6	1153.0	1169.6	1158.7
62.5°	1097.5	1100.6	1108.0	1122.8	1141.1	1168.4	1208.7	1259.3	1303.5	1326.5	1301.8
65°	1241.9	1251.6	1257.9	1272.9	1289.9	1318.8	1361.0	1415.2	1462.6	1477.8	1449.2
67.5°	1384.9	1393.4	1404.3	1421.5	1438.7	1471.3	1510.4	1563.1	1615.1	1628.9	1584.5
70°	1447.4	1452.3	1469.3	1492.8	1525.8	1564.3	1609.4	1668.5	1732.9	1744.3	1688.0
72.5°	1322.1	1326.9	1346.0	1385.9	1443.4	1504.5	1583.3	1670.2	1755.2	1768.0	1690.4
75°	999.9	992.0	1020.2	1073.0	1150.6	1235.8	1346.0	1470.5	1593.4	1609.4	1516.9
77.5°	516.8	515.8	537.0	602.6	695.2	792.2	913.4	1054.2	1174.5	1223.1	1147.7
80°	145.6	147.2	157.3	189.9	244.0	314.1	408.8	540.7	639.1	689.3	647.2
82.5°	57.1	61.6	65.4	71.5	78.6	88.9	118.7	176.6	236.9	283.1	231.9
85°	20.5	21.9	31.0	36.7	37.3	39.3	44.8	52.2	63.0	75.1	61.8
87.5°	7.7	8.5	9.9	16.4	16.2	14.8	18.0	18.8	14.2	13.0	16.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7
2.5°	311.8	312.0	312.0	312.2	312.4	312.4	312.9	312.9
5°	312.0	312.0	311.6	311.8	311.6	311.6	311.8	311.8
7.5°	311.6	311.4	311.0	310.8	310.4	310.4	310.4	310.4
10°	311.0	310.8	310.4	310.2	310.0	310.0	310.0	310.0
12.5°	312.7	312.0	311.6	311.4	311.4	311.4	311.4	311.4
15°	316.9	315.5	314.5	314.5	314.7	315.1	315.1	315.5
17.5°	322.2	320.5	319.5	318.7	319.1	319.7	320.1	320.5
20°	328.4	327.6	326.2	325.4	325.4	326.2	326.6	326.8
22.5°	337.2	336.5	335.9	334.9	334.9	335.3	336.1	336.1
25°	350.1	349.7	349.3	348.5	348.3	348.3	348.7	349.1
27.5°	366.3	366.5	366.1	365.9	365.3	365.1	365.7	365.5
30°	388.0	389.0	390.0	389.2	388.2	387.6	387.0	386.2
32.5°	417.3	416.1	415.3	413.9	412.1	410.5	409.2	407.8
35°	445.1	443.1	442.2	443.5	443.3	442.2	440.8	439.6
37.5°	479.1	478.7	479.1	481.3	480.9	481.9	479.1	478.9
40°	522.0	522.4	525.3	527.9	529.3	530.7	529.1	527.5
42.5°	571.8	571.6	572.7	576.3	578.7	580.3	576.9	576.5
45°	624.5	623.1	623.9	626.9	629.4	631.2	627.3	627.3
47.5°	682.4	680.0	677.3	680.8	682.2	683.4	680.4	679.4
50°	747.0	741.9	736.3	737.7	737.7	737.3	733.4	733.2
52.5°	821.1	811.8	801.5	797.6	795.4	793.0	786.3	783.0
55°	906.4	892.4	876.2	866.3	861.0	854.3	843.2	840.1
57.5°	1006.0	984.1	956.2	944.0	932.3	921.3	909.0	905.6
60°	1124.0	1091.8	1054.8	1032.3	1019.6	1009.0	996.3	995.7
62.5°	1255.7	1204.8	1162.9	1142.7	1133.4	1124.0	1111.9	1113.5
65°	1389.5	1336.5	1297.2	1280.8	1272.1	1264.4	1252.2	1254.0
67.5°	1521.5	1472.7	1429.6	1412.8	1403.1	1393.4	1382.4	1384.2
70°	1616.3	1555.8	1507.2	1469.9	1446.6	1420.3	1403.3	1399.0
72.5°	1589.2	1495.8	1418.7	1344.8	1301.4	1266.2	1242.3	1232.0
75°	1375.3	1247.8	1148.5	1057.8	1006.8	965.3	935.1	916.3
77.5°	1021.4	878.0	760.8	656.3	573.7	518.2	479.1	453.8
80°	559.1	425.2	310.8	218.5	160.6	133.4	117.9	110.4
82.5°	174.1	112.4	82.8	71.5	66.4	63.6	58.9	51.4
85°	55.5	48.6	45.2	43.1	41.1	35.8	24.7	22.5
87.5°	21.5	22.1	21.9	20.7	21.1	15.2	12.1	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)