

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: P270142

Luminaire Tested: **GWC-AF-01-LED-E1-5NQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-5NQ-7027-600
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3754.1 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

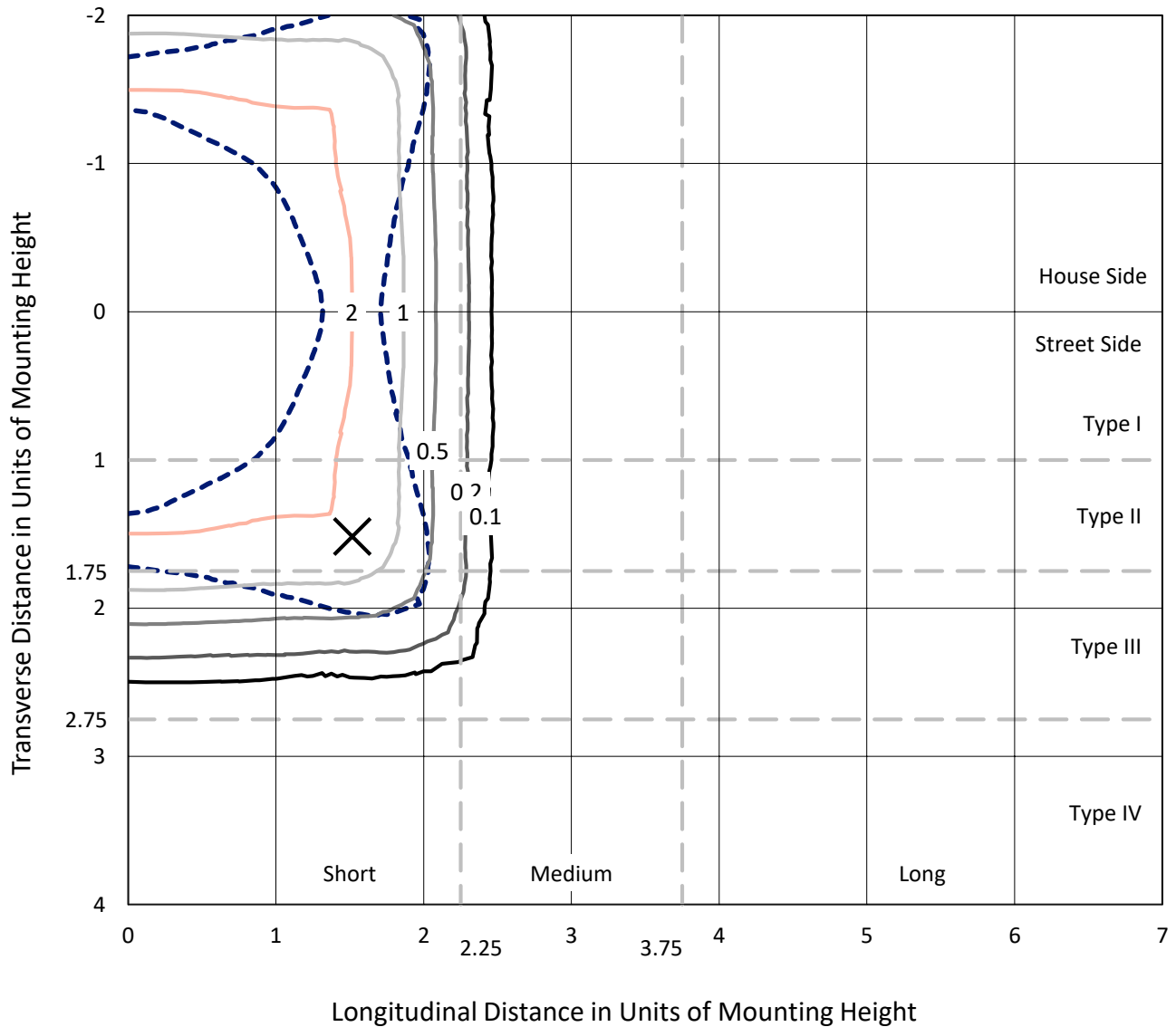
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

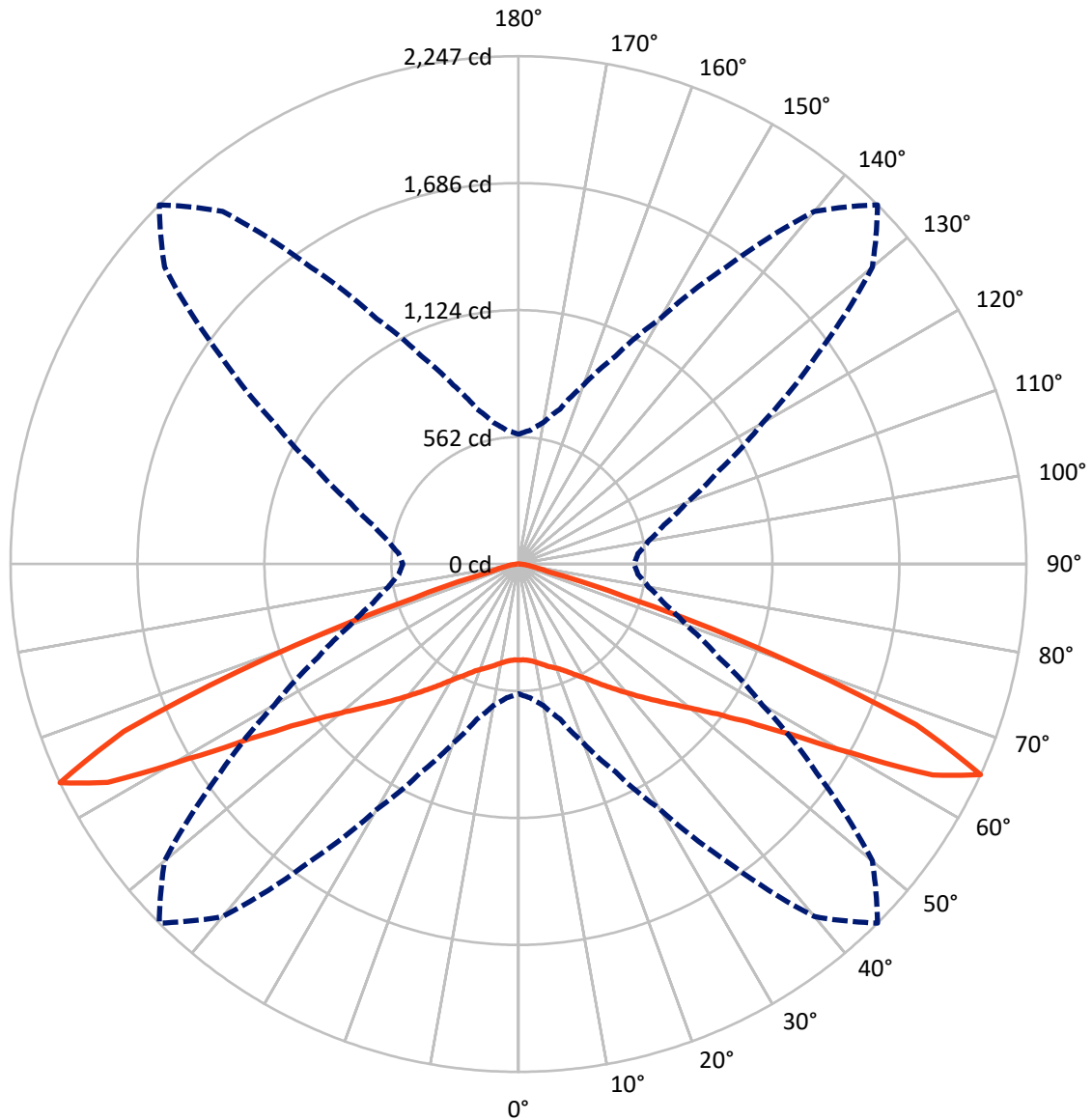
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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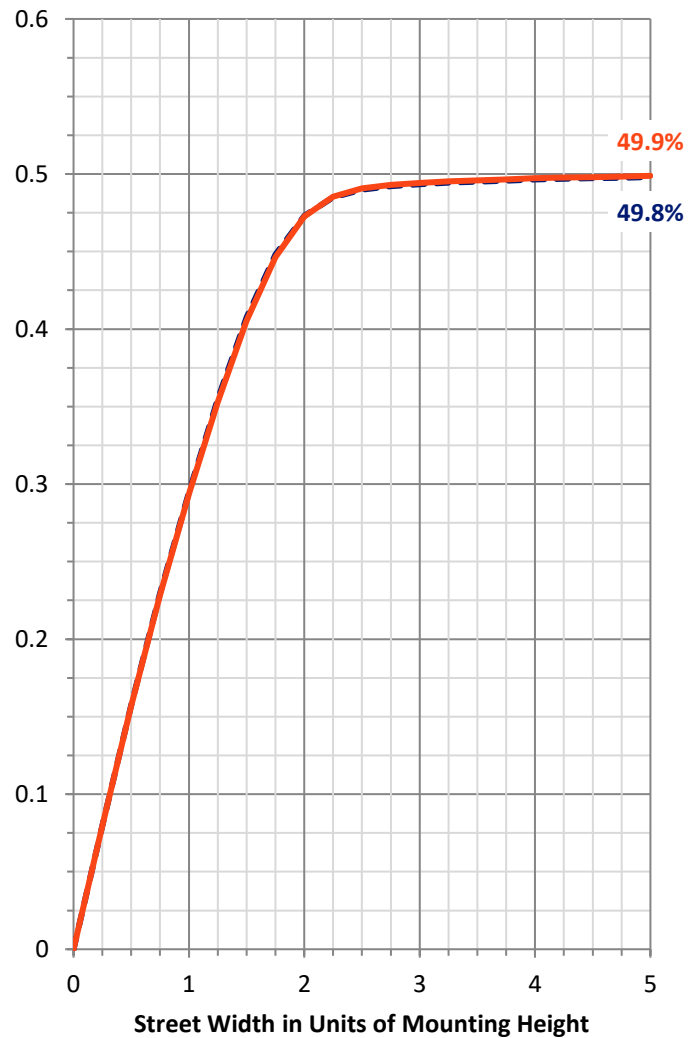
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1877.1	0.0	1877.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1877.1	0.0	1877.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	3754.1	0.0	3754.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	1.1
10°-20°	132.8	3.5
20°-30°	248.3	6.6
30°-40°	419.9	11.2
40°-50°	686.6	18.3
50°-60°	1091.8	29.1
60°-70°	986.9	26.3
70°-80°	124.9	3.3
80°-90°	21.5	0.6
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°	3754.1	100.0
0°-180°	3754.1	100.0



--- HS — SS

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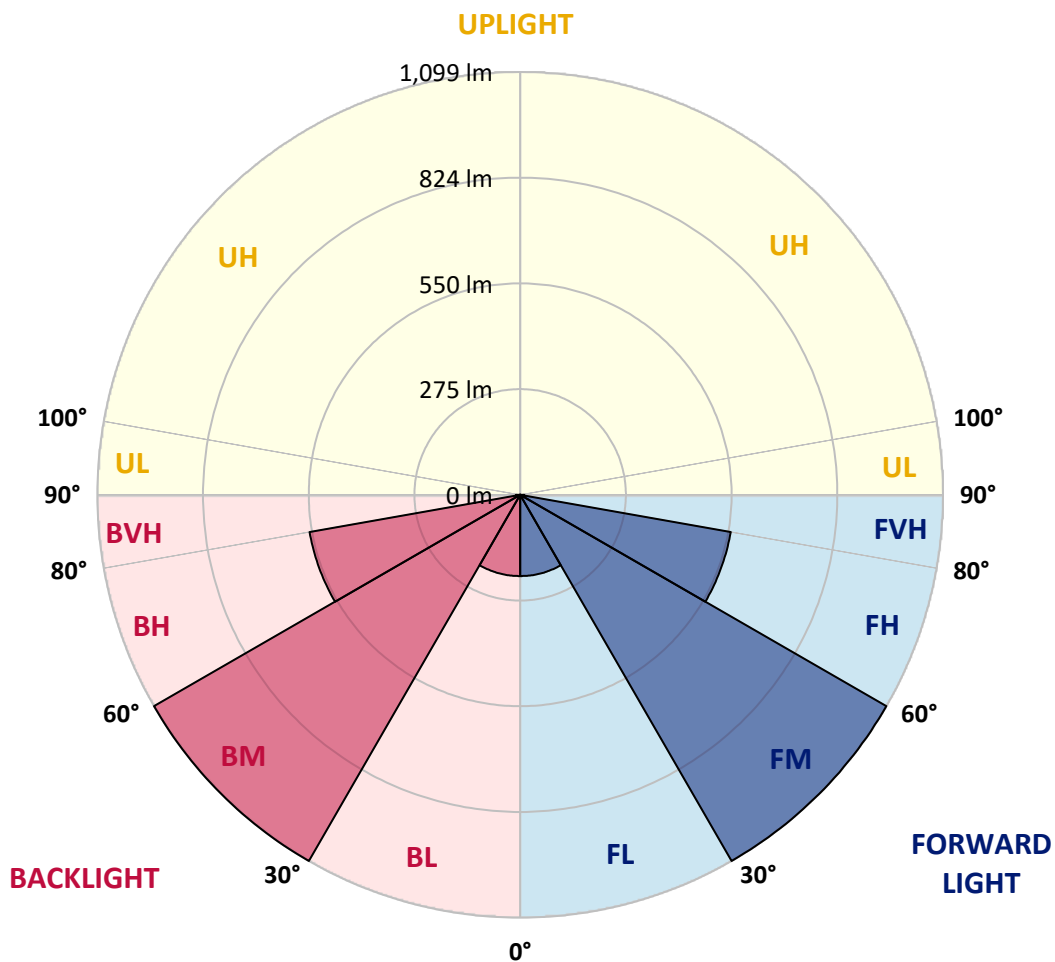
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.2	5.6			
FM (30°-60°)	1099.2	29.3			
FH (60°-80°)	555.9	14.8			G0/660
FVH (80°-90°)	10.7	0.3			G1/100
BL (0°-30°)	211.2	5.6	B1/500		
BM (30°-60°)	1099.2	29.3	B2/2500		
BH (60°-80°)	555.9	14.8	B2/1000		G0/660
BVH (80°-90°)	10.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8
2.5°	425.2	425.4	425.8	425.4	425.8	425.3	425.0	425.4	425.0	424.4	424.8
5°	428.9	429.0	429.0	428.5	429.0	428.6	428.1	428.9	428.3	427.8	428.1
7.5°	435.0	435.7	435.1	434.6	435.0	434.6	434.3	434.5	434.3	433.7	433.9
10°	443.3	443.8	443.5	443.3	443.7	443.5	443.0	443.0	443.0	442.5	442.5
12.5°	453.3	453.0	452.9	453.0	453.6	453.6	453.5	453.6	454.0	454.2	453.9
15°	463.2	463.4	463.4	463.4	464.6	465.4	466.0	466.3	466.9	467.2	466.5
17.5°	475.5	475.5	475.3	475.5	476.6	477.9	478.3	479.2	479.9	480.4	479.4
20°	489.1	489.4	489.4	489.8	491.3	492.8	492.8	493.2	492.8	493.2	492.6
22.5°	505.8	507.0	507.0	507.1	508.5	510.3	509.9	510.3	509.5	510.2	509.5
25°	527.7	529.2	528.9	528.9	529.9	531.2	531.3	532.3	532.2	533.1	532.5
27.5°	552.3	554.8	555.4	555.2	556.0	557.2	557.6	558.7	558.0	558.7	558.3
30°	581.8	582.8	584.3	584.7	585.6	587.0	587.0	587.0	586.2	587.2	587.9
32.5°	612.4	614.4	615.7	618.9	620.5	621.4	621.2	621.5	620.6	622.0	623.2
35°	652.8	654.2	656.5	658.9	661.2	661.0	660.3	660.6	660.6	661.8	662.9
37.5°	701.5	701.8	704.9	708.5	709.4	708.5	705.2	704.5	703.0	704.5	706.2
40°	753.0	754.2	760.2	762.5	763.1	761.1	756.6	753.9	750.4	752.3	754.8
42.5°	806.9	809.6	814.9	819.0	820.7	819.6	813.1	809.2	804.5	805.6	808.0
45°	866.9	869.7	877.6	881.3	884.7	882.9	876.7	870.5	863.4	863.8	867.8
47.5°	933.6	936.7	946.6	953.1	954.9	954.4	947.7	939.3	929.3	929.0	932.4
50°	1008.4	1011.5	1024.0	1033.9	1039.1	1038.6	1030.4	1018.6	1006.6	1006.8	1011.0
52.5°	1081.6	1085.3	1098.4	1115.5	1125.7	1132.9	1127.9	1116.7	1102.0	1102.4	1106.3
55°	1150.2	1156.4	1171.3	1194.7	1213.3	1233.6	1239.4	1239.0	1230.1	1232.7	1236.5
57.5°	1183.4	1192.6	1215.6	1252.5	1290.5	1331.6	1366.5	1392.6	1403.6	1420.3	1416.4
60°	1120.5	1135.1	1169.1	1223.4	1298.4	1384.3	1476.3	1566.0	1642.7	1700.5	1667.3
62.5°	917.3	936.5	977.5	1047.2	1160.8	1298.1	1474.1	1686.5	1917.9	2057.5	1957.8
65°	574.0	593.8	635.6	710.1	843.1	1013.7	1252.5	1604.6	2036.8	2247.4	2044.5
67.5°	223.8	234.5	257.3	304.9	404.7	556.7	796.3	1195.7	1712.9	1897.3	1681.1
70°	112.2	113.2	117.5	126.2	147.7	191.8	291.9	554.3	982.3	1186.4	947.0
72.5°	81.0	81.2	83.4	87.2	94.1	103.9	122.9	169.7	319.4	488.3	299.4
75°	62.1	62.8	64.0	66.1	69.8	74.6	81.6	97.7	121.1	140.4	118.1
77.5°	47.8	49.2	50.1	52.0	54.3	57.8	59.6	65.8	76.4	80.5	79.3
80°	36.4	37.5	39.5	41.1	42.7	44.2	43.6	46.4	52.0	55.3	53.5
82.5°	23.1	24.7	30.3	31.6	32.3	33.3	32.2	32.3	34.9	36.9	34.9
85°	14.9	15.8	19.1	20.9	21.1	21.7	21.3	20.0	20.0	18.2	20.7
87.5°	6.8	7.0	8.7	10.2	10.5	9.5	9.3	9.0	7.1	6.8	7.4
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°	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8
2.5°	424.5	425.0	425.2	425.6	425.8	425.8	426.1	426.3
5°	428.0	428.5	428.6	429.4	429.5	429.4	429.7	429.8
7.5°	433.9	434.8	435.1	435.9	435.3	436.0	436.1	436.1
10°	442.8	443.7	443.8	444.5	444.1	444.5	444.5	444.1
12.5°	454.4	454.5	454.0	454.5	453.9	454.2	453.6	453.3
15°	467.2	466.6	465.4	465.4	464.3	464.6	464.3	464.2
17.5°	479.6	478.5	477.7	477.4	476.6	476.3	475.8	475.8
20°	493.3	492.8	492.4	491.6	490.7	489.8	489.7	490.0
22.5°	509.9	509.7	509.7	509.3	508.1	507.3	506.7	506.7
25°	532.1	530.4	530.4	530.3	529.7	529.2	528.2	528.7
27.5°	556.9	556.1	556.8	556.7	556.1	556.1	555.4	555.4
30°	587.9	587.4	588.5	587.6	585.9	585.6	584.9	584.1
32.5°	623.2	623.0	624.5	623.5	620.6	619.0	617.7	617.0
35°	662.9	662.9	664.9	664.2	661.2	660.1	657.6	657.2
37.5°	706.1	708.9	712.3	713.0	710.3	709.7	707.0	705.6
40°	756.9	760.7	765.7	767.0	764.1	763.6	759.8	758.0
42.5°	811.1	817.4	823.7	824.7	821.9	819.2	815.7	814.3
45°	871.5	879.1	887.3	889.5	885.3	882.0	877.4	877.4
47.5°	939.4	948.9	958.2	964.1	960.2	956.7	951.1	947.7
50°	1019.5	1032.6	1044.6	1050.7	1044.5	1037.9	1028.4	1025.2
52.5°	1120.1	1134.2	1144.8	1141.7	1132.1	1122.8	1112.5	1108.1
55°	1248.6	1253.2	1253.2	1241.3	1222.4	1206.7	1190.3	1184.9
57.5°	1409.0	1390.8	1362.5	1326.9	1282.2	1243.1	1216.7	1204.2
60°	1597.6	1509.8	1410.5	1312.9	1232.7	1166.5	1127.4	1109.4
62.5°	1723.4	1493.4	1294.4	1137.8	1022.5	942.7	888.7	867.6
65°	1610.8	1245.5	979.0	791.5	665.9	584.7	531.2	511.5
67.5°	1179.7	780.4	521.2	373.6	273.8	218.4	196.4	187.2
70°	529.6	274.8	168.4	131.5	113.4	104.2	100.0	98.6
72.5°	159.7	115.5	97.3	87.9	80.7	76.1	72.9	72.5
75°	96.4	80.2	71.2	65.5	61.1	57.3	55.5	55.1
77.5°	67.4	58.8	54.6	50.7	47.2	44.2	42.7	41.5
80°	47.3	43.3	41.3	39.0	36.7	34.1	31.8	30.7
82.5°	31.6	30.7	30.7	29.4	27.4	25.0	20.4	19.4
85°	20.4	20.2	20.7	20.0	18.7	16.0	13.1	12.4
87.5°	9.5	9.7	10.7	10.5	10.2	8.4	6.6	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)