

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: P299397

Luminaire Tested: **GLNA-AF-01-LED-E1-5NQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299397
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: GLNA-AF-01-LED-E1-5NQ-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4223.8 lumens
Efficiency: N/A
Efficacy: 96.0 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): 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

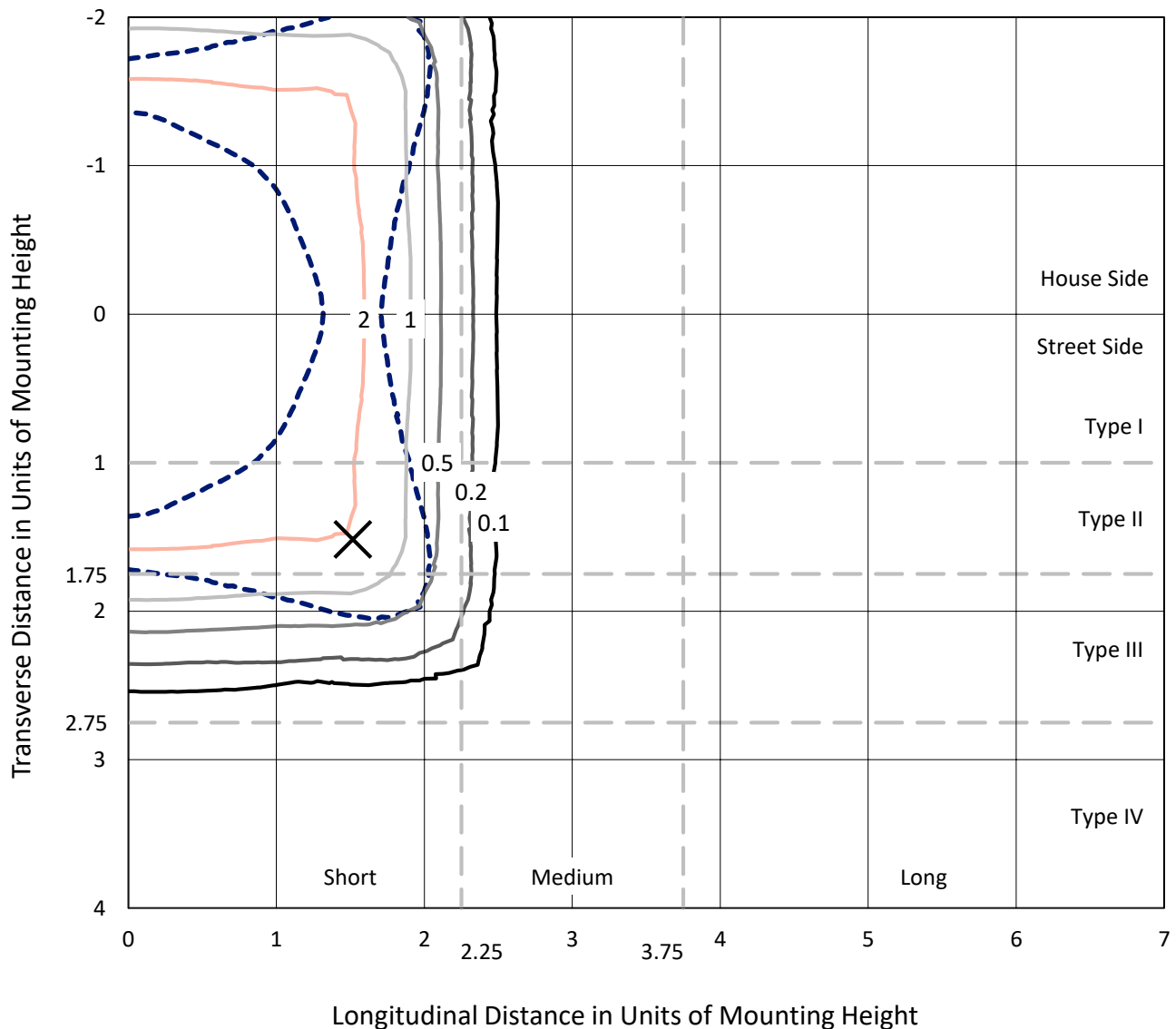


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

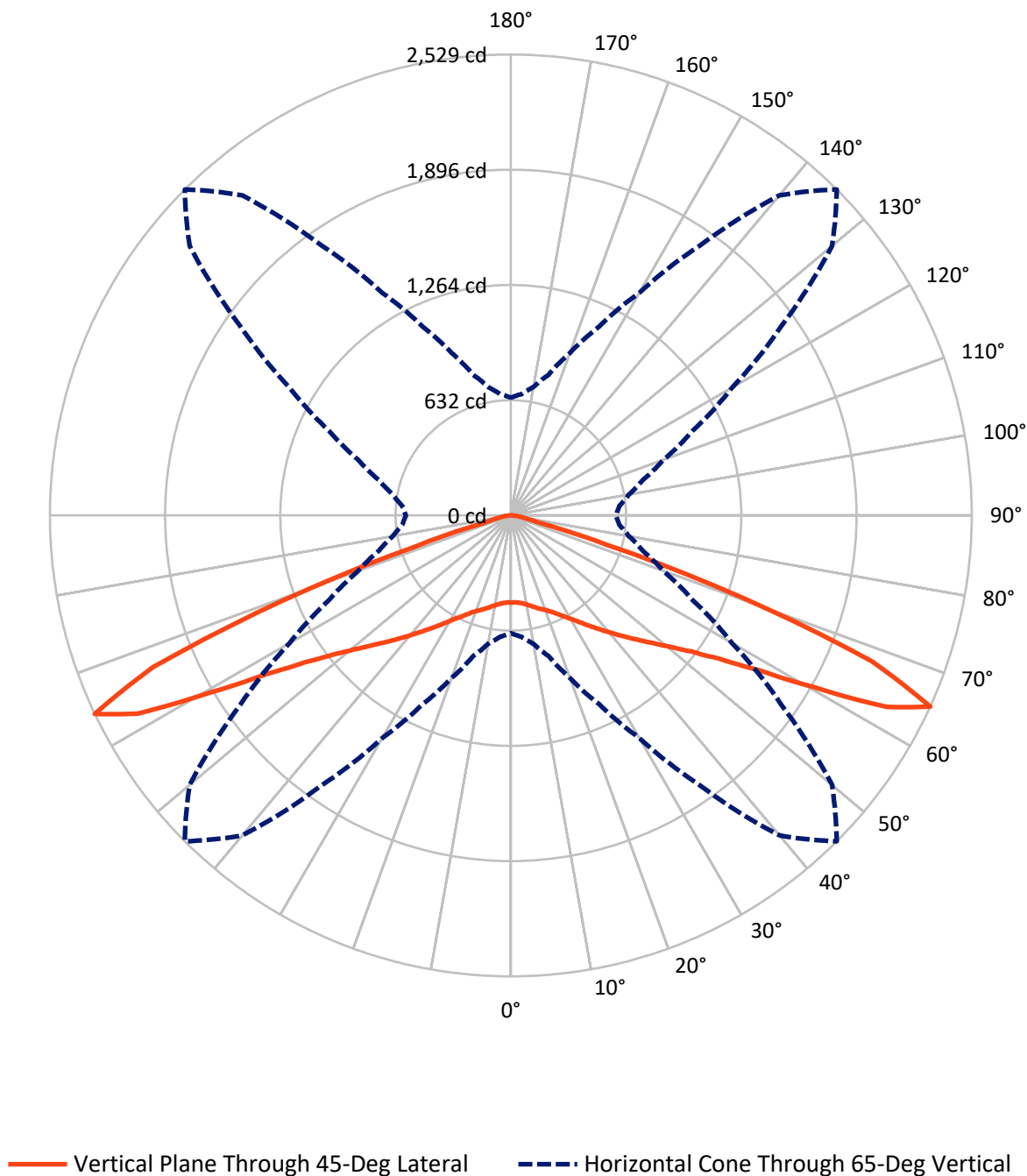


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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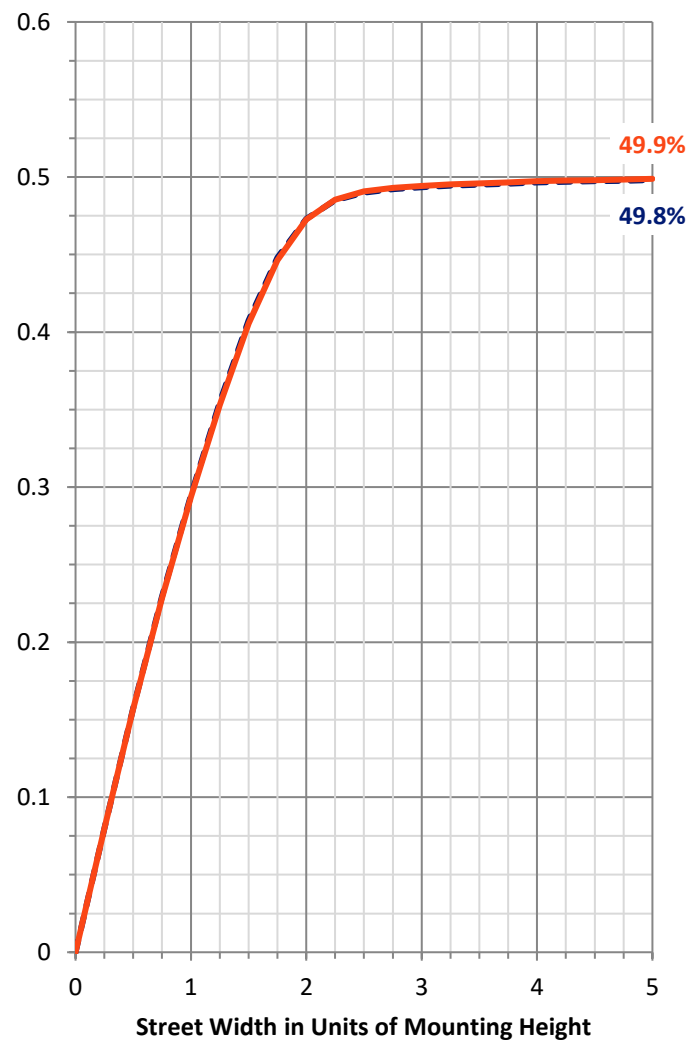
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2111.9	0.0	2111.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2111.9	0.0	2111.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4223.8	0.0	4223.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	1.1
10°-20°	149.4	3.5
20°-30°	279.3	6.6
30°-40°	472.5	11.2
40°-50°	772.5	18.3
50°-60°	1228.4	29.1
60°-70°	1110.4	26.3
70°-80°	140.5	3.3
80°-90°	24.2	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°	4223.8	100.0
0°-180°	4223.8	100.0

Coefficient of Utilization



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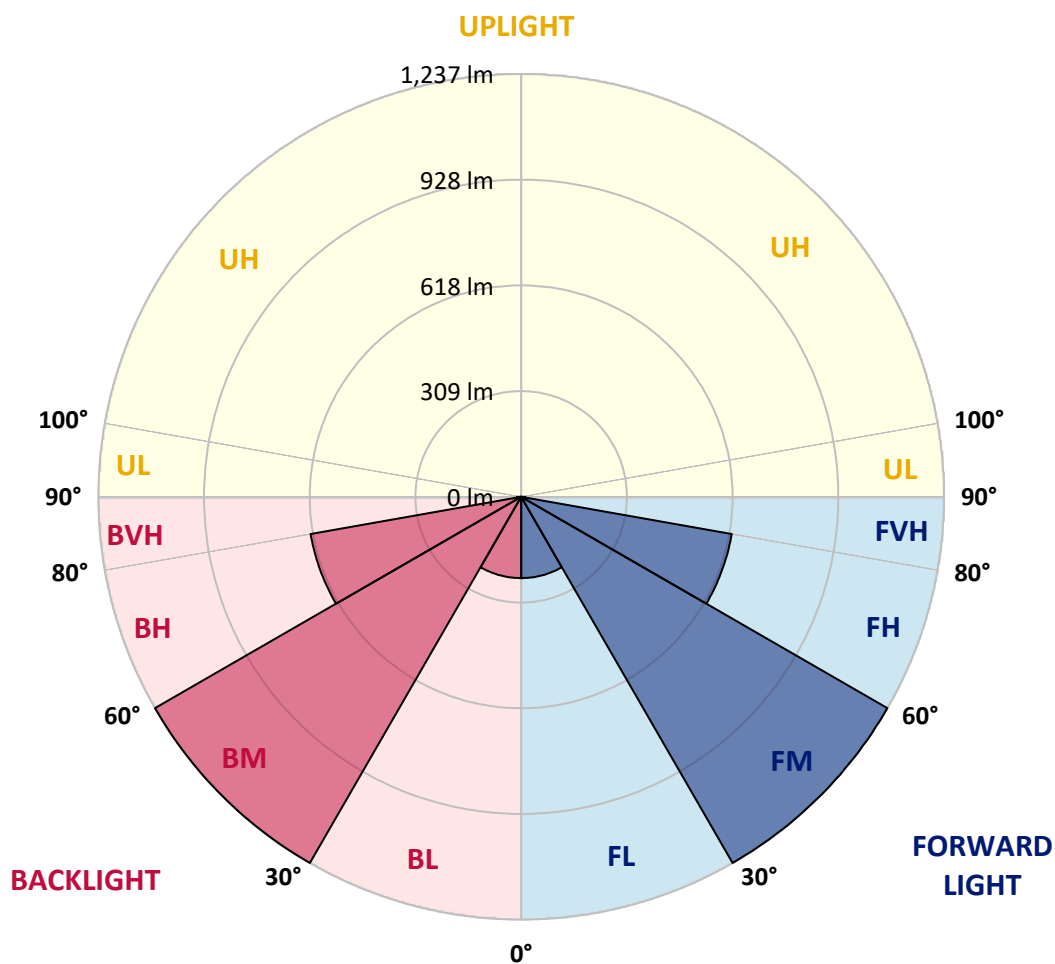
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	237.7	5.6			
FM	(30°-60°)	1236.7	29.3			
FH	(60°-80°)	625.5	14.8			G0/660
FVH	(80°-90°)	12.1	0.3			G1/100
BL	(0°-30°)	237.7	5.6	B1/500		
BM	(30°-60°)	1236.7	29.3	B2/2500		
BH	(60°-80°)	625.5	14.8	B2/1000		G0/660
BVH	(80°-90°)	12.1	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°	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9
2.5°	478.3	478.7	479.1	478.7	479.1	478.5	478.1	478.7	478.1	477.5	477.9
5°	482.5	482.7	482.7	482.1	482.7	482.3	481.7	482.5	481.9	481.3	481.7
7.5°	489.4	490.2	489.6	489.0	489.4	489.0	488.6	488.8	488.6	488.0	488.2
10°	498.7	499.3	498.9	498.7	499.1	498.9	498.5	498.3	498.5	497.9	497.9
12.5°	510.0	509.8	509.6	509.8	510.4	510.4	510.2	510.4	510.8	511.0	510.6
15°	521.1	521.5	521.5	521.5	522.6	523.6	524.2	524.6	525.4	525.6	524.8
17.5°	534.9	534.9	534.7	534.9	536.1	537.7	538.3	539.1	539.8	540.4	539.5
20°	550.3	550.7	550.7	551.1	552.7	554.5	554.5	554.9	554.5	554.9	554.3
22.5°	569.1	570.3	570.3	570.5	572.1	574.3	573.7	574.3	573.3	574.1	573.3
25°	593.7	595.4	595.0	595.0	596.2	597.6	597.8	599.0	598.8	599.8	599.2
27.5°	621.3	624.1	624.9	624.7	625.5	626.9	627.3	628.7	627.9	628.7	628.3
30°	654.6	655.8	657.4	657.9	658.9	660.3	660.3	660.5	659.5	660.7	661.3
32.5°	689.0	691.2	692.8	696.3	698.1	699.1	698.9	699.3	698.3	699.9	701.1
35°	734.5	736.1	738.7	741.4	743.8	743.6	743.0	743.2	743.2	744.6	745.8
37.5°	789.3	789.7	793.1	797.0	798.2	797.0	793.5	792.7	790.9	792.7	794.6
40°	847.3	848.6	855.4	857.9	858.5	856.4	851.2	848.2	844.3	846.5	849.2
42.5°	908.0	910.8	916.9	921.4	923.4	922.0	914.9	910.4	905.2	906.4	909.2
45°	975.2	978.6	987.3	991.7	995.4	993.2	986.3	979.4	971.3	971.9	976.2
47.5°	1050.4	1053.8	1065.1	1072.4	1074.4	1074.0	1066.2	1056.7	1045.7	1045.3	1049.0
50°	1134.7	1138.1	1152.1	1163.4	1169.1	1168.5	1159.4	1146.0	1132.5	1132.7	1137.5
52.5°	1217.0	1221.1	1235.8	1255.2	1266.4	1274.5	1269.0	1256.3	1239.9	1240.3	1244.7
55°	1294.1	1301.1	1317.9	1344.2	1365.1	1387.9	1394.4	1394.0	1384.1	1386.9	1391.3
57.5°	1331.5	1341.8	1367.7	1409.3	1452.0	1498.3	1537.4	1566.7	1579.2	1598.0	1593.6
60°	1260.7	1277.1	1315.3	1376.4	1460.9	1557.4	1660.9	1762.0	1848.2	1913.3	1875.9
62.5°	1032.2	1053.6	1099.9	1178.2	1306.0	1460.5	1658.5	1897.5	2157.8	2314.9	2202.7
65°	645.9	668.0	715.1	799.0	948.5	1140.6	1409.3	1805.3	2291.7	2528.5	2300.2
67.5°	251.8	263.9	289.4	343.0	455.4	626.3	895.9	1345.4	1927.1	2134.7	1891.3
70°	126.2	127.4	132.1	142.0	166.2	215.8	328.4	623.7	1105.2	1334.9	1065.5
72.5°	91.2	91.4	93.8	98.1	105.8	116.9	138.3	190.9	359.4	549.3	336.9
75°	69.8	70.6	72.0	74.4	78.5	84.1	91.8	110.0	136.3	158.1	132.9
77.5°	53.8	55.4	56.4	58.6	61.1	64.9	67.1	74.0	86.1	90.6	89.2
80°	40.9	42.3	44.5	46.3	48.1	49.9	49.1	52.2	58.6	62.3	60.3
82.5°	26.1	27.7	34.0	35.6	36.4	37.6	36.2	36.4	39.2	41.5	39.2
85°	16.8	17.8	21.6	23.5	23.7	24.5	23.9	22.6	22.6	20.6	23.1
87.5°	7.7	7.9	9.7	11.5	11.9	10.7	10.5	10.1	8.1	7.7	8.3
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°	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9
2.5°	477.7	478.1	478.3	478.9	479.1	479.1	479.3	479.7
5°	481.5	482.1	482.3	483.1	483.3	483.1	483.5	483.7
7.5°	488.2	489.2	489.6	490.4	489.8	490.6	490.8	490.8
10°	498.1	499.1	499.3	500.1	499.7	500.1	500.1	499.7
12.5°	511.2	511.4	510.8	511.4	510.6	511.0	510.4	510.0
15°	525.6	525.0	523.6	523.6	522.4	522.6	522.4	522.2
17.5°	539.6	538.5	537.5	537.1	536.1	535.9	535.3	535.3
20°	555.1	554.5	553.9	553.1	552.1	551.1	550.9	551.3
22.5°	573.7	573.5	573.5	573.1	571.7	570.7	570.1	570.1
25°	598.6	596.8	596.8	596.6	596.0	595.4	594.2	594.8
27.5°	626.7	625.7	626.5	626.3	625.7	625.7	624.9	624.9
30°	661.3	660.9	662.1	661.1	659.1	658.9	658.1	657.2
32.5°	701.3	700.9	702.7	701.5	698.3	696.5	694.9	694.1
35°	745.8	746.0	748.2	747.4	743.8	742.6	739.8	739.4
37.5°	794.4	797.6	801.4	802.2	799.2	798.4	795.4	793.8
40°	851.6	855.8	861.5	862.9	859.7	859.1	855.0	852.8
42.5°	912.5	919.7	926.8	928.0	924.8	921.6	917.7	916.1
45°	980.6	989.1	998.4	1000.8	996.0	992.3	987.1	987.1
47.5°	1056.9	1067.6	1078.1	1084.6	1080.3	1076.3	1070.2	1066.2
50°	1147.2	1161.8	1175.4	1182.2	1175.2	1167.7	1157.0	1153.5
52.5°	1260.3	1276.1	1288.0	1284.4	1273.8	1263.3	1251.6	1246.9
55°	1404.7	1410.1	1410.1	1396.6	1375.2	1357.6	1339.2	1333.1
57.5°	1585.3	1564.7	1533.1	1492.9	1442.5	1398.6	1368.9	1354.9
60°	1797.6	1698.7	1586.9	1477.1	1386.9	1312.5	1268.4	1248.2
62.5°	1939.0	1680.3	1456.3	1280.1	1150.3	1060.7	999.8	976.0
65°	1812.2	1401.3	1101.5	890.6	749.1	657.9	597.6	575.5
67.5°	1327.4	878.1	586.5	420.4	308.0	245.7	221.0	210.7
70°	595.8	309.2	189.5	148.0	127.6	117.1	112.6	111.0
72.5°	179.6	130.0	109.6	98.9	90.8	85.7	81.9	81.5
75°	108.4	90.2	80.1	73.8	68.6	64.5	62.5	61.9
77.5°	75.8	66.3	61.5	57.0	53.0	49.9	48.1	46.7
80°	53.2	48.7	46.5	43.9	41.3	38.4	35.8	34.6
82.5°	35.6	34.6	34.6	33.0	30.9	28.1	22.9	21.8
85°	22.9	22.7	23.1	22.6	21.0	18.0	14.8	14.0
87.5°	10.7	10.9	12.1	11.9	11.5	9.5	7.5	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)