

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: P526474

Luminaire Tested: **GALN-SA1B-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4021 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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: 24 FT



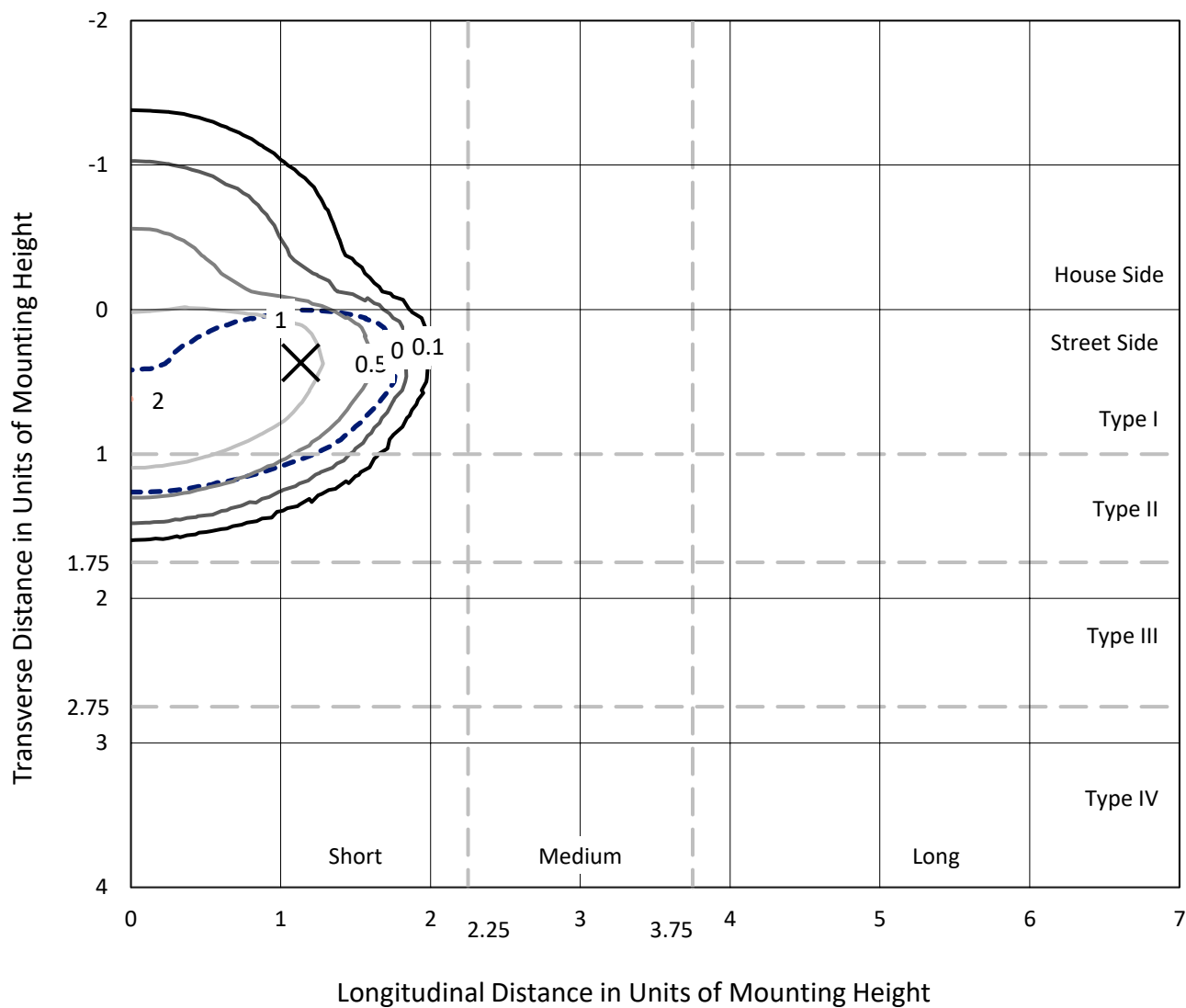
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

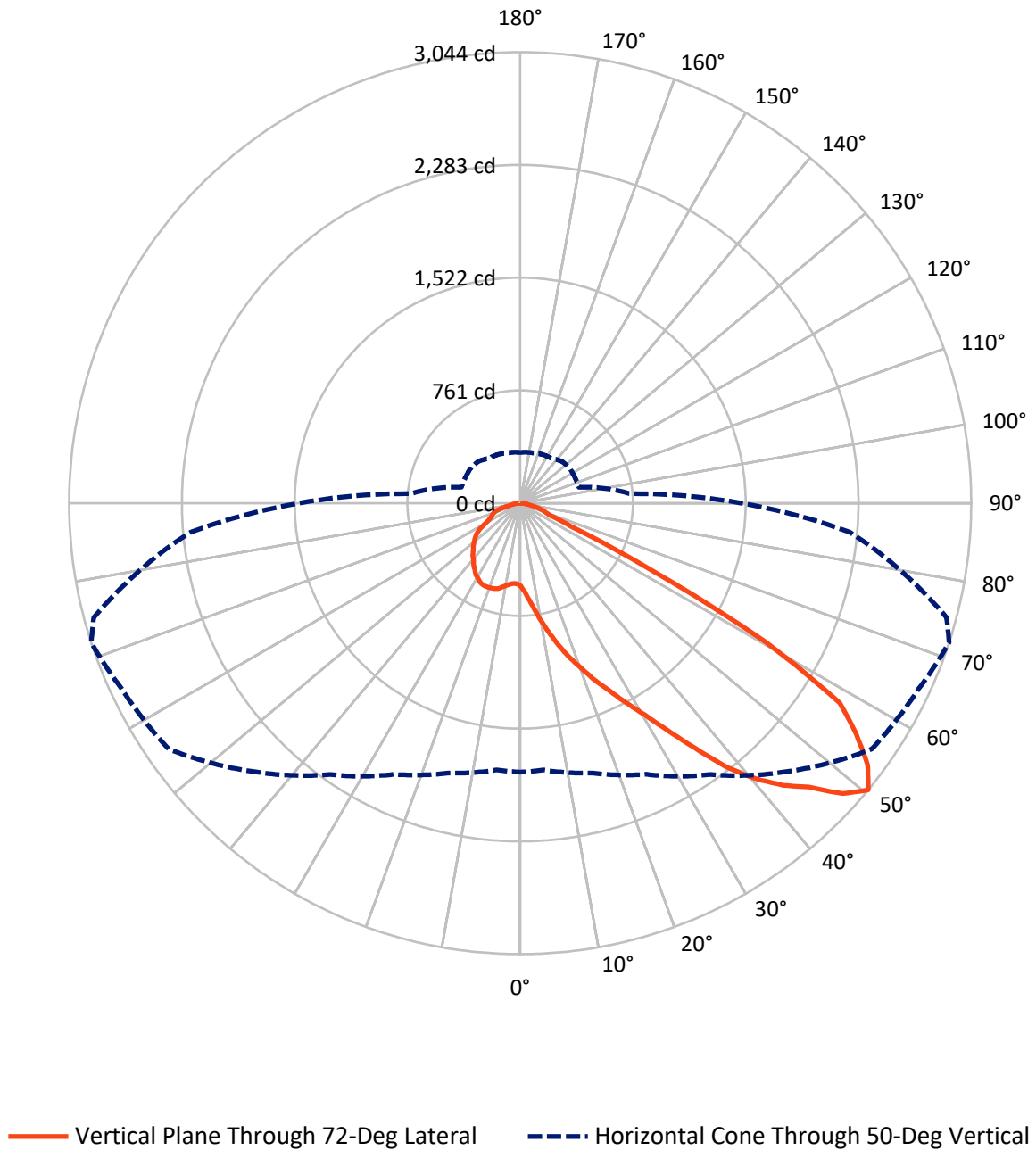


Based on 25 foot mounting height. Maximum calculated value = 2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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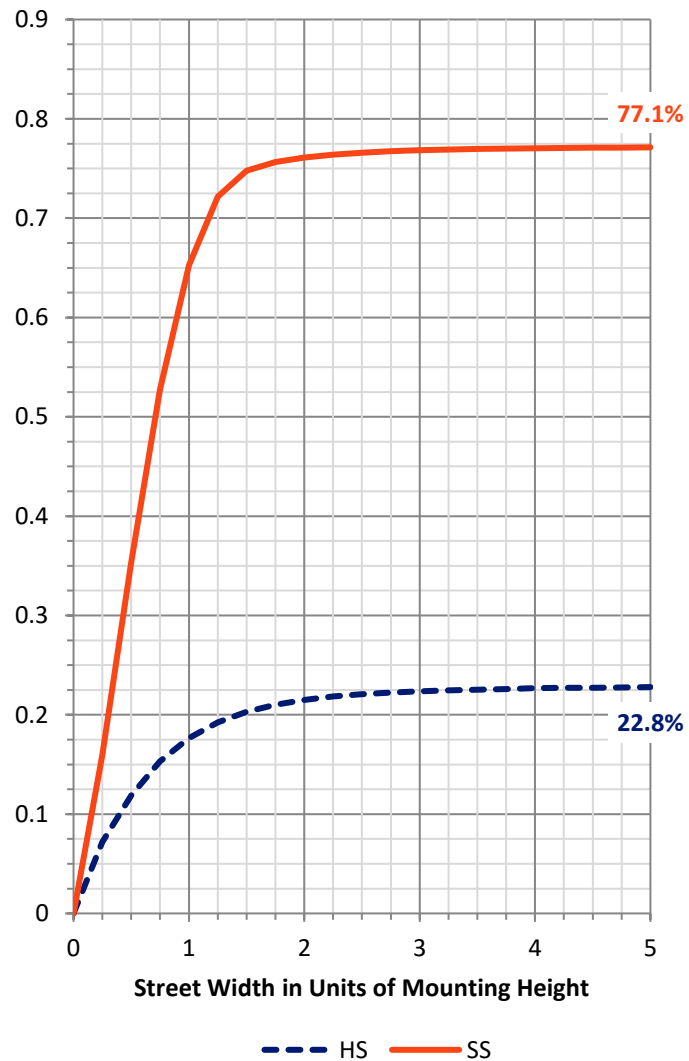
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	921.2	0.0	921.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3099.8	0.0	3099.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	4021.0	0.0	4021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	1.6
10°-20°	246.1	6.1
20°-30°	477.2	11.9
30°-40°	790.6	19.7
40°-50°	1106.3	27.5
50°-60°	933.3	23.2
60°-70°	284.5	7.1
70°-80°	99.8	2.5
80°-90°	17.3	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°	4021.0	100.0
0°-180°	4021.0	100.0

Coefficient of Utilization



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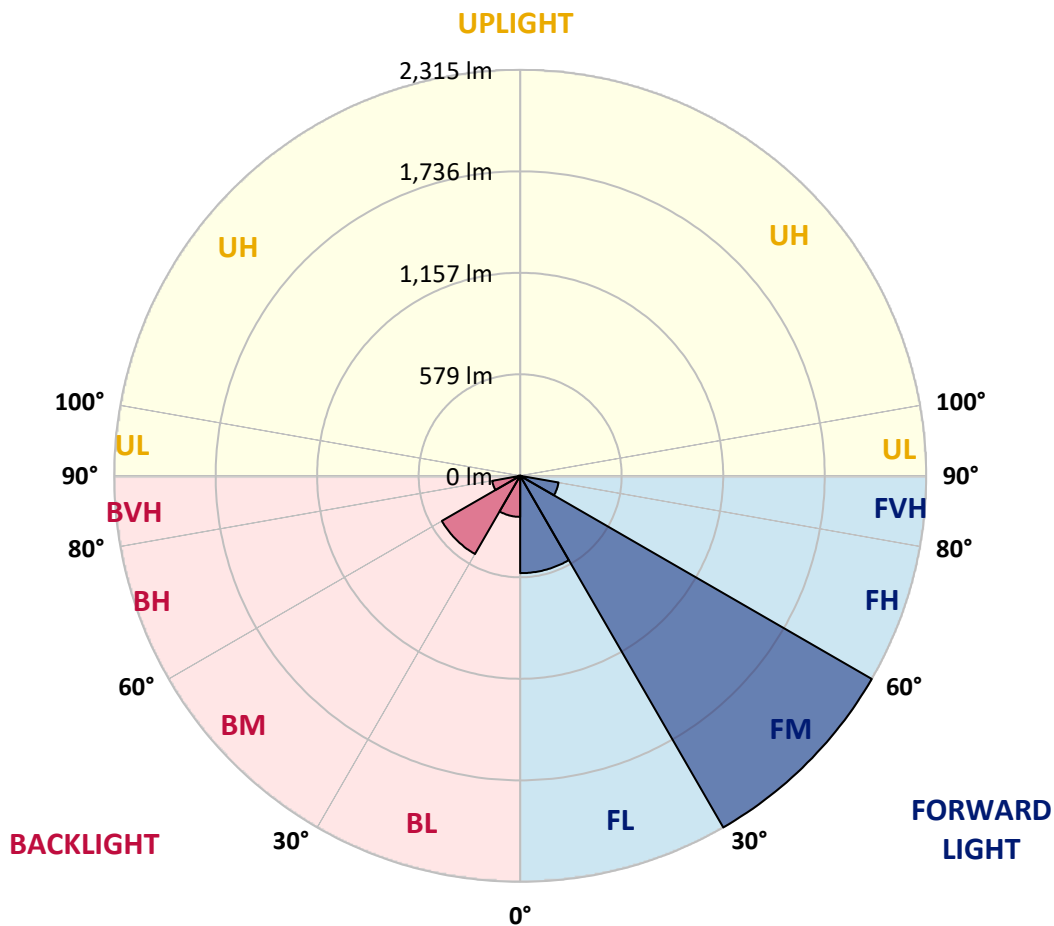
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	555.0	13.8			
FM	(30°-60°)	2315.0	57.6			
FH	(60°-80°)	221.9	5.5			G0/660
FVH	(80°-90°)	7.8	0.2			G0/10
BL	(0°-30°)	234.2	5.8	B1/500		
BM	(30°-60°)	515.2	12.8	B1/1000		
BH	(60°-80°)	162.3	4.0	B1/500		G1/500
BVH	(80°-90°)	9.6	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8
2.5°	720.0	715.5	702.1	697.6	681.7	652.8	642.9	613.5	601.1	589.6	576.2
5°	910.5	889.6	888.1	862.8	826.0	804.6	740.9	698.1	658.8	638.9	602.1
7.5°	1031.9	1032.4	1032.4	1011.5	982.2	928.0	870.7	793.6	734.4	705.0	642.4
10°	1147.4	1137.4	1132.0	1130.0	1110.1	1057.3	996.1	900.6	819.5	785.2	672.7
12.5°	1229.0	1220.5	1233.0	1226.5	1212.1	1177.7	1120.0	1011.0	909.5	863.3	721.5
15°	1267.8	1273.8	1283.7	1301.6	1295.2	1282.2	1218.5	1124.5	1006.6	954.3	764.8
17.5°	1327.5	1311.1	1323.0	1345.4	1363.3	1357.3	1321.0	1206.6	1102.6	1038.4	823.0
20°	1369.3	1359.8	1365.8	1391.7	1405.1	1438.9	1420.0	1314.1	1194.6	1127.0	891.6
22.5°	1488.7	1474.8	1455.4	1459.3	1464.3	1488.2	1492.7	1432.0	1301.6	1230.0	956.8
25°	1636.0	1623.0	1600.2	1576.8	1562.3	1557.9	1573.3	1524.5	1404.1	1330.0	1027.0
27.5°	1798.2	1776.3	1761.9	1713.6	1674.8	1668.8	1661.4	1635.0	1525.5	1445.4	1106.1
30°	1955.9	1938.5	1919.1	1842.0	1801.7	1795.2	1758.4	1765.8	1657.4	1568.3	1195.6
32.5°	2075.3	2076.8	2032.5	1974.3	1936.5	1902.2	1888.7	1910.1	1826.6	1754.9	1295.7
35°	2171.9	2176.3	2134.0	2081.3	2040.5	2064.4	2058.4	2068.4	2028.6	1941.0	1412.1
37.5°	2265.9	2243.5	2198.2	2172.9	2151.5	2190.8	2241.5	2250.0	2257.4	2154.4	1547.4
40°	2281.3	2283.3	2256.9	2274.9	2248.0	2307.2	2425.1	2414.2	2444.5	2354.5	1694.2
42.5°	2259.4	2263.9	2274.4	2299.7	2364.4	2435.6	2610.7	2565.9	2602.7	2522.6	1837.0
45°	2223.6	2205.2	2218.1	2314.7	2426.6	2584.8	2780.4	2745.5	2733.6	2666.4	2007.2
47.5°	2052.4	2071.4	2111.7	2230.6	2398.7	2610.7	2900.8	2892.8	2928.7	2881.4	2161.9
50°	1815.1	1807.6	1885.3	2019.1	2236.0	2560.0	2894.3	2966.5	3043.6	2977.9	2231.1
52.5°	1359.3	1399.1	1465.8	1632.0	1941.5	2283.3	2753.0	2873.4	2936.1	2922.2	2175.3
55°	859.3	871.2	911.5	1109.1	1387.7	1832.5	2359.9	2639.1	2751.0	2803.3	2124.1
57.5°	417.5	395.1	444.3	603.0	801.6	1232.5	1820.1	2298.7	2542.0	2636.6	2012.6
60°	217.9	226.4	245.8	302.5	414.5	639.9	1134.4	1532.0	1903.7	2049.0	1525.5
62.5°	180.6	183.6	196.5	224.9	275.6	368.2	579.2	746.8	970.7	1101.6	867.7
65°	153.2	154.7	168.7	187.6	219.9	259.2	298.0	312.0	377.6	387.6	308.5
67.5°	127.9	129.4	144.3	162.2	183.1	193.6	203.5	202.5	210.0	207.0	206.5
70°	98.5	100.0	115.4	134.3	144.8	138.8	169.7	176.6	179.6	182.1	186.1
72.5°	71.2	74.1	86.1	99.5	94.0	108.0	139.8	150.3	154.2	155.7	160.7
75°	51.7	52.7	55.7	51.7	59.7	75.1	98.5	111.5	116.4	117.9	125.4
77.5°	22.9	23.4	23.9	29.9	38.3	46.8	58.7	69.2	76.1	78.1	80.1
80°	11.9	12.4	15.4	20.4	27.4	34.3	42.8	48.8	53.2	53.7	55.7
82.5°	7.5	8.0	10.9	14.4	19.4	25.4	31.3	36.3	39.8	40.3	40.8
85°	3.5	4.5	6.5	9.0	12.9	16.4	16.9	14.4	15.4	15.9	14.9
87.5°	1.0	1.5	2.0	1.5	2.0	2.0	2.5	3.0	3.0	3.0	3.5
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°	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8
2.5°	568.7	564.2	546.8	540.4	523.4	526.4	517.5	517.0	515.0	514.5	514.0
5°	582.6	568.7	547.8	531.9	522.4	521.4	515.0	515.0	517.0	518.5	515.0
7.5°	605.5	589.6	554.3	539.4	530.9	529.4	524.9	521.4	525.9	524.4	520.5
10°	631.9	604.0	566.7	553.8	539.9	536.4	536.4	537.9	530.4	532.9	528.9
12.5°	661.3	623.9	582.6	567.7	551.3	549.3	548.3	537.4	541.3	539.4	529.4
15°	698.6	646.8	603.0	577.7	563.7	554.8	541.8	539.9	537.4	532.4	527.9
17.5°	738.9	671.7	612.5	580.7	559.8	553.3	543.3	532.9	525.4	526.4	522.9
20°	773.2	694.6	616.0	583.6	556.8	544.3	528.9	522.4	514.5	514.0	513.5
22.5°	814.0	725.4	621.0	575.7	547.8	534.9	524.4	513.0	507.5	500.5	504.0
25°	862.8	737.4	622.0	571.2	541.3	518.5	513.0	500.5	498.6	488.6	490.6
27.5°	898.1	743.9	614.0	557.3	526.4	509.0	499.1	490.1	486.6	479.2	477.2
30°	945.4	753.8	597.1	539.9	511.5	492.1	486.1	484.1	474.2	466.2	465.2
32.5°	999.1	760.3	586.1	521.9	496.1	481.1	484.1	474.7	462.2	455.3	453.3
35°	1041.9	762.8	558.8	501.5	485.6	476.2	472.7	470.7	452.8	446.3	441.3
37.5°	1107.1	757.3	535.9	487.1	474.2	470.7	467.7	454.3	433.9	424.4	417.5
40°	1183.2	755.8	506.5	466.7	463.2	467.2	458.3	437.4	409.0	398.5	393.6
42.5°	1256.3	766.2	488.1	455.8	451.3	452.8	440.3	409.0	395.1	389.1	381.1
45°	1378.7	788.1	457.8	438.8	436.9	435.9	420.9	388.1	380.1	372.7	371.2
47.5°	1489.2	773.7	438.4	421.4	423.4	418.0	386.1	375.7	366.7	359.2	356.8
50°	1495.7	739.4	411.0	408.0	408.5	399.0	368.7	361.7	350.3	345.3	341.8
52.5°	1461.8	683.2	385.6	386.6	388.1	372.7	347.3	342.3	332.9	325.9	323.9
55°	1366.8	595.6	360.7	364.7	368.7	339.3	331.4	318.9	311.5	301.5	302.0
57.5°	1204.1	479.6	325.9	332.4	340.8	308.5	302.5	287.1	276.1	268.2	267.2
60°	807.0	341.3	273.7	276.1	295.1	282.1	281.6	266.2	251.3	244.3	240.3
62.5°	476.2	260.7	236.3	233.9	233.4	240.8	253.3	247.8	228.4	214.9	218.9
65°	249.3	225.4	219.9	211.5	206.5	204.5	214.0	216.4	203.5	189.1	188.1
67.5°	209.5	209.5	205.0	202.0	195.0	186.6	180.6	172.7	170.7	166.7	161.7
70°	190.6	195.5	194.0	187.1	181.1	171.7	156.2	143.3	130.9	126.4	129.4
72.5°	166.2	171.2	171.2	167.7	159.7	145.3	130.4	115.4	105.0	97.0	96.0
75°	127.9	130.4	136.3	132.4	121.9	112.9	97.5	82.1	72.1	64.7	63.2
77.5°	81.6	85.6	85.6	85.1	77.6	69.2	59.2	48.3	40.8	35.3	33.8
80°	54.2	56.7	58.7	56.7	51.7	45.3	37.8	30.4	24.9	20.4	19.4
82.5°	39.8	42.8	44.3	42.3	37.3	32.3	26.9	21.4	15.9	12.4	11.4
85°	15.4	15.9	17.9	21.4	20.9	20.4	16.4	11.9	9.0	6.5	6.0
87.5°	4.0	3.5	4.0	4.0	3.5	3.0	3.0	3.0	3.0	1.5	2.0
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)