

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: INVUE

Report Number: P676747

Luminaire Tested: **CCW-SA-2C-827-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676747
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-827-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

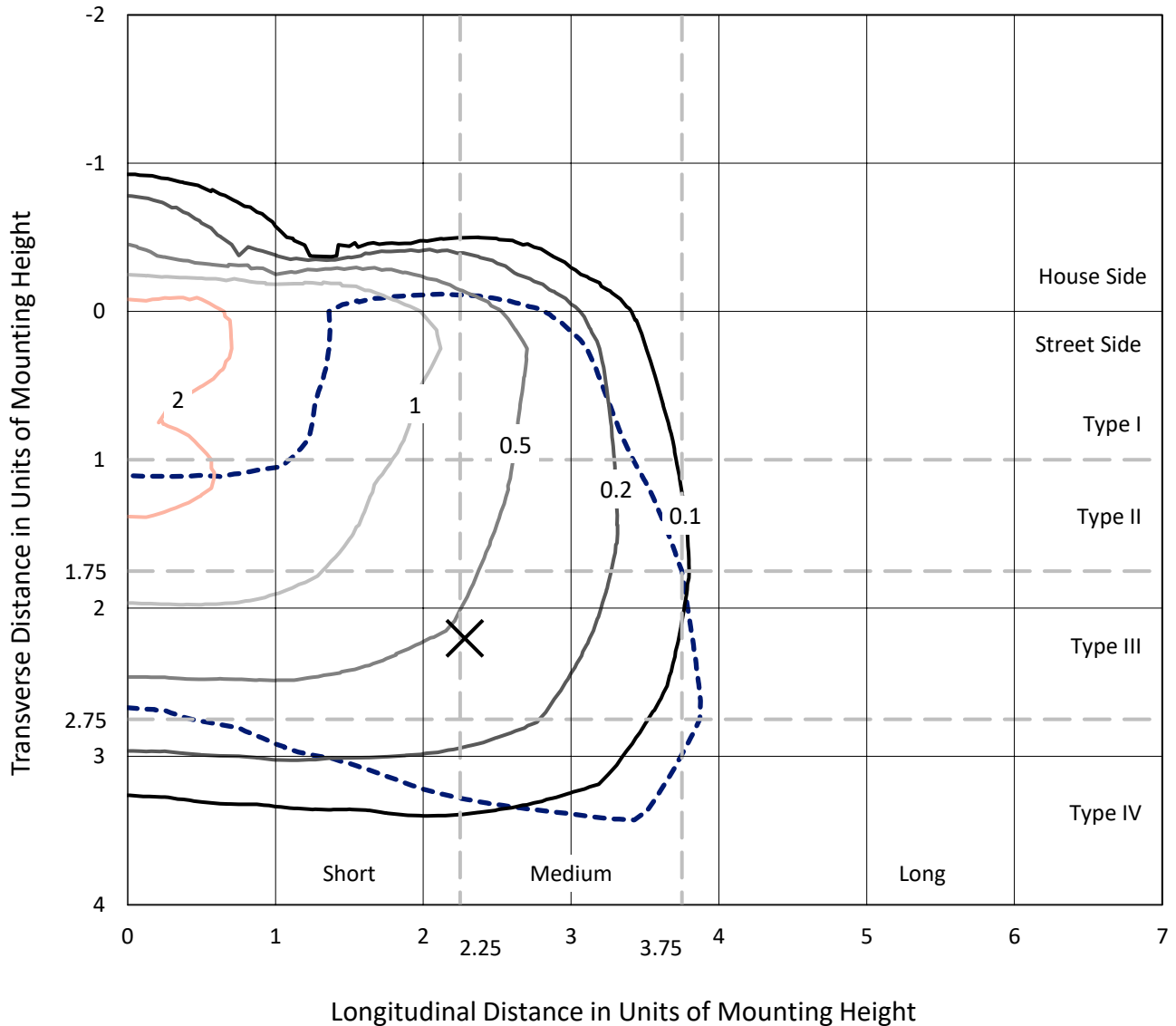
Lumens per Lamp: N/A
Luminaire Lumens: 4795.3 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (A_{in}): 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

REPORT NUMBER: P676747
 CATALOG NUMBER: CCW-SA-2C-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

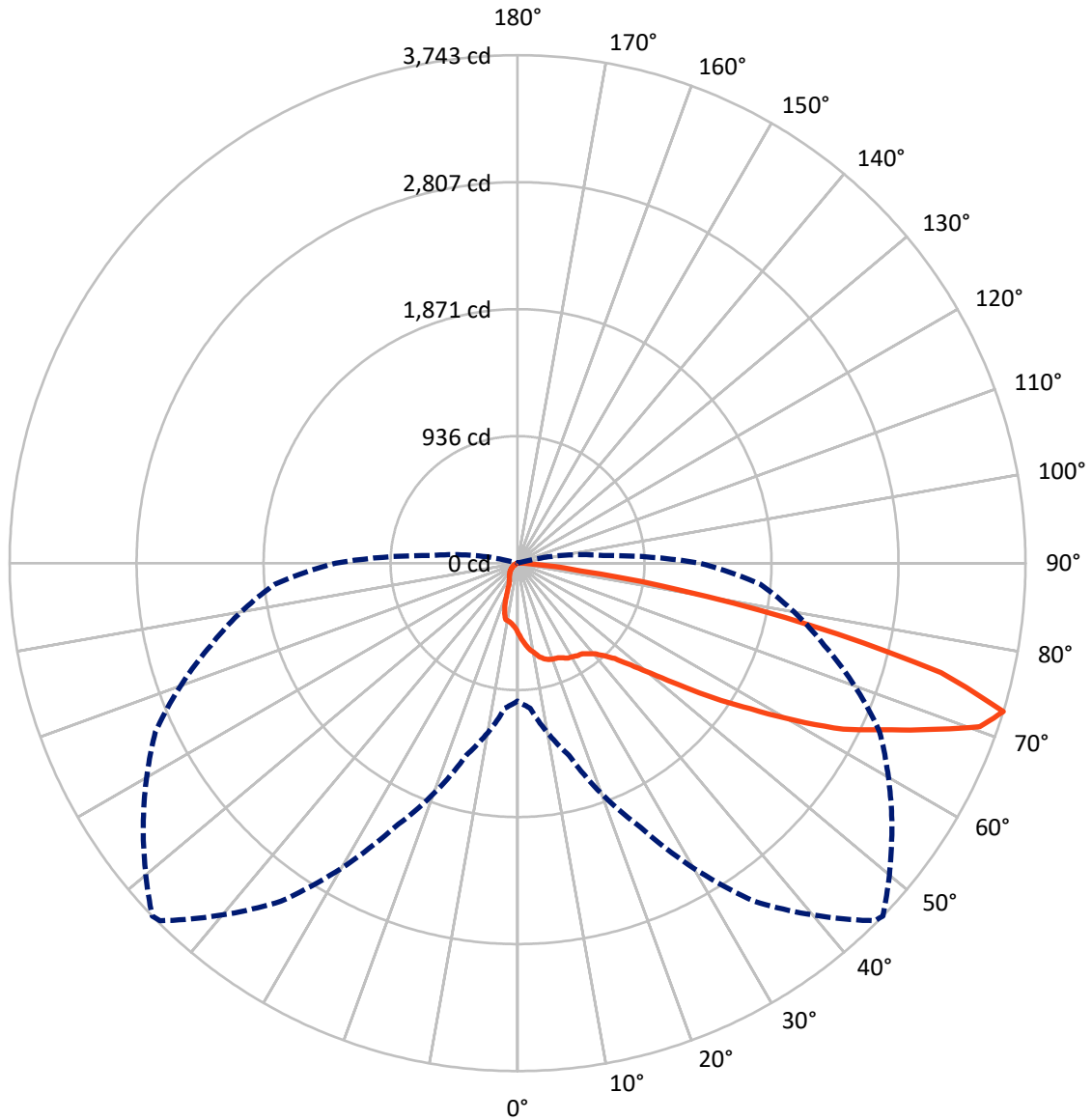
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P676747
CATALOG NUMBER: CCW-SA-2C-827-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P676747

CATALOG NUMBER: CCW-SA-2C-827-U-T4W-HSS

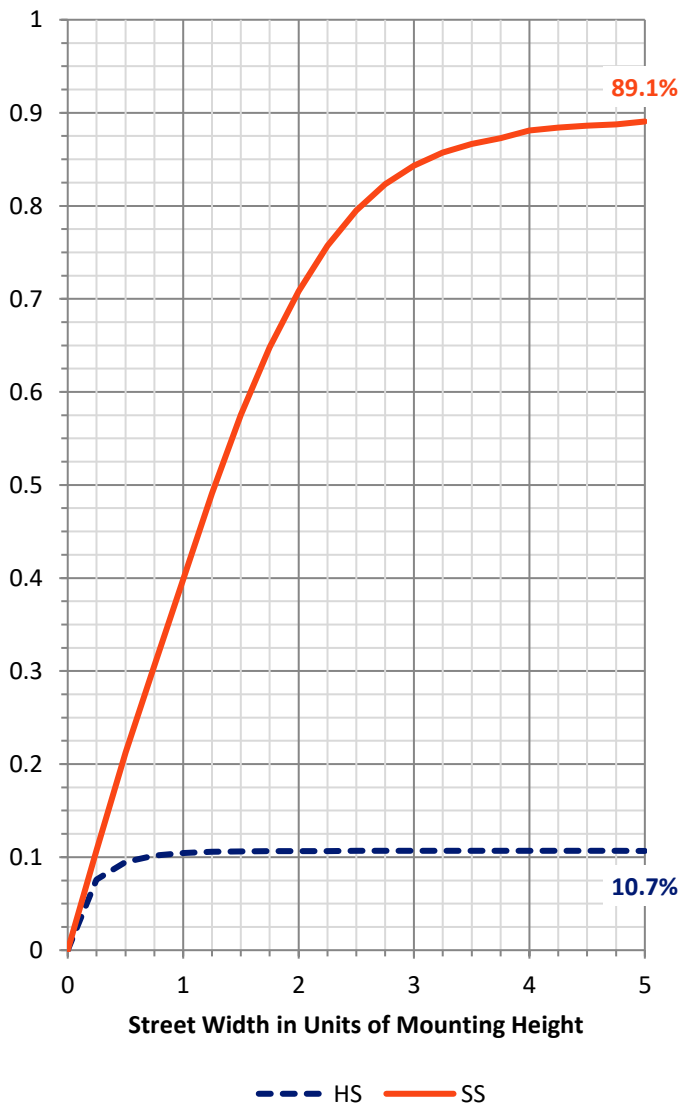
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	516.3	0.0	516.3
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4279.0	0.0	4279.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	4795.3	0.0	4795.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	1.1
10°-20°	154.9	3.2
20°-30°	242.4	5.1
30°-40°	339.5	7.1
40°-50°	559.9	11.7
50°-60°	1006.3	21.0
60°-70°	1458.5	30.4
70°-80°	910.3	19.0
80°-90°	72.2	1.5
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°	4795.3	100.0
0°-180°	4795.3	100.0



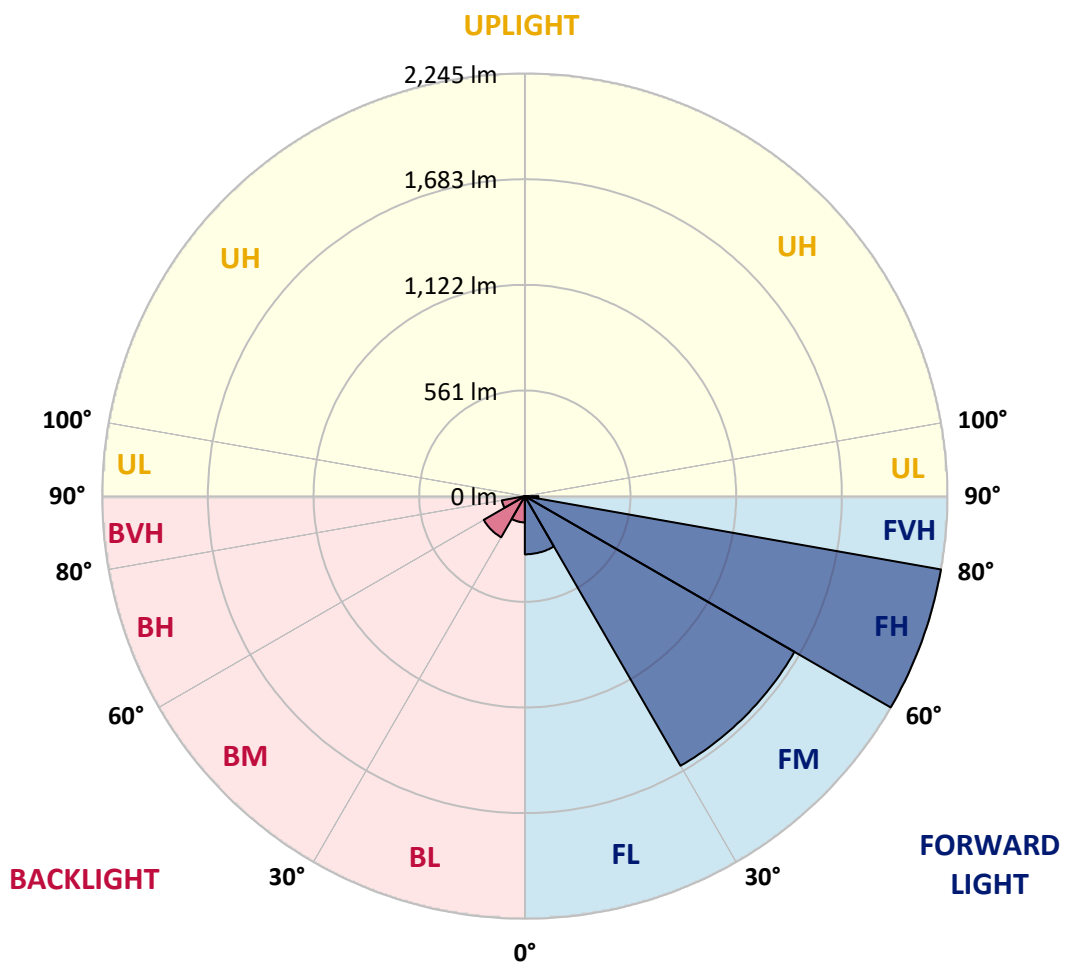
REPORT NUMBER: P676747
 CATALOG NUMBER: CCW-SA-2C-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	309.1	6.4			
FM (30°-60°)	1653.5	34.5			
FH (60°-80°)	2244.6	46.8			G2/5000
FVH (80°-90°)	71.8	1.5			G1/100
BL (0°-30°)	139.5	2.9	B1/500		
BM (30°-60°)	252.2	5.3	B1/1000		
BH (60°-80°)	124.1	2.6	B1/500		G1/500
BVH (80°-90°)	0.4	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 IV Medium





REPORT NUMBER: P676747

CATALOG NUMBER: CCW-SA-2C-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5
2.5°	573.7	571.2	574.9	573.7	559.0	561.4	560.2	550.4	533.3	523.5	517.4
5°	639.7	645.8	640.9	629.9	621.4	604.2	601.8	585.9	559.0	541.9	523.5
7.5°	708.2	708.2	698.4	681.3	662.9	644.6	642.1	615.2	592.0	562.6	537.0
10°	759.6	753.5	746.1	727.8	707.0	682.5	670.3	650.7	625.0	589.6	556.5
12.5°	804.8	795.0	782.8	755.9	731.4	704.5	707.0	675.2	658.1	626.2	577.3
15°	830.5	822.0	810.9	786.5	748.6	736.3	731.4	711.9	681.3	649.5	603.0
17.5°	836.6	830.5	815.8	784.0	763.2	748.6	747.3	724.1	710.6	683.7	632.4
20°	824.4	813.4	802.4	781.6	762.0	757.1	753.5	753.5	736.3	700.9	650.7
22.5°	803.6	791.4	785.3	773.0	757.1	755.9	758.3	755.9	742.4	719.2	670.3
25°	787.7	781.6	771.8	768.1	758.3	776.7	773.0	769.4	765.7	738.8	700.9
27.5°	792.6	791.4	784.0	769.4	762.0	781.6	792.6	793.8	792.6	765.7	729.0
30°	795.0	788.9	781.6	777.9	780.4	799.9	799.9	826.8	815.8	788.9	757.1
32.5°	823.2	819.5	795.0	786.5	787.7	810.9	812.2	839.1	835.4	817.1	781.6
35°	883.1	858.6	823.2	798.7	798.7	829.3	819.5	858.6	868.4	839.1	798.7
37.5°	972.4	954.1	890.4	835.4	814.6	836.6	846.4	868.4	897.8	872.1	833.0
40°	1149.8	1146.1	1055.6	936.9	855.0	874.5	878.2	912.5	932.0	896.6	885.6
42.5°	1409.1	1390.7	1306.3	1119.2	928.4	919.8	933.3	955.3	1001.8	972.4	945.5
45°	1662.3	1653.7	1569.3	1360.1	1061.7	1010.3	1003.0	1042.1	1110.6	1078.8	1058.0
47.5°	1845.7	1828.6	1780.9	1604.8	1257.4	1116.7	1121.6	1160.8	1247.6	1223.1	1229.3
50°	1986.4	1977.8	1927.7	1831.0	1504.5	1284.3	1274.5	1313.7	1431.1	1447.0	1464.1
52.5°	2140.5	2156.4	2089.1	2007.2	1796.8	1509.4	1487.3	1500.8	1652.5	1689.2	1736.9
55°	2288.5	2314.2	2246.9	2235.9	2102.6	1758.9	1755.2	1723.4	1919.1	1924.0	1949.7
57.5°	2385.1	2376.6	2371.7	2431.6	2408.4	2045.1	2026.7	1994.9	2172.3	2140.5	2217.6
60°	2392.5	2416.9	2498.9	2646.9	2688.5	2381.5	2354.5	2267.7	2391.2	2315.4	2462.2
62.5°	2447.5	2467.1	2618.7	2823.0	2876.8	2677.5	2695.8	2475.6	2578.4	2518.5	2733.7
65°	2308.1	2369.2	2673.8	2960.0	3123.9	2977.1	2958.8	2743.5	2770.4	2714.2	3001.6
67.5°	2182.1	2205.3	2523.3	3001.6	3319.6	3278.0	3270.7	2980.8	2968.6	2864.6	3077.4
70°	1773.6	1801.7	2116.0	2788.8	3385.7	3629.1	3611.9	3313.5	3103.1	2782.6	2688.5
72.5°	1016.4	1072.7	1466.5	2147.8	3042.0	3726.9	3742.8	3367.3	2944.1	2339.9	1795.6
75°	332.7	348.6	609.1	1217.0	2275.0	3251.1	3223.0	2894.0	2375.3	1544.8	810.9
77.5°	112.5	115.0	179.8	440.3	1261.1	2196.8	2212.7	2068.3	1459.2	642.1	223.8
80°	57.5	61.2	88.1	165.1	518.6	1196.2	1221.9	1179.1	611.6	189.6	53.8
82.5°	26.9	28.1	51.4	91.7	237.3	469.7	469.7	516.2	216.5	106.4	22.0
85°	9.8	9.8	26.9	52.6	100.3	156.6	157.8	159.0	113.8	79.5	9.8
87.5°	3.7	3.7	13.5	22.0	36.7	47.7	47.7	37.9	57.5	52.6	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P676747

CATALOG NUMBER: CCW-SA-2C-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5
2.5°	514.9	507.6	501.5	492.9	481.9	475.8	477.0	469.7	469.7	466.0	464.8
5°	514.9	507.6	491.7	477.0	467.2	455.0	448.9	444.0	444.0	441.6	442.8
7.5°	518.6	507.6	485.6	466.0	450.1	437.9	428.1	426.9	424.4	418.3	423.2
10°	540.6	524.7	488.0	461.1	442.8	429.3	412.2	407.3	400.0	389.0	390.2
12.5°	559.0	538.2	505.2	468.5	445.2	423.2	384.1	341.3	322.9	303.3	304.6
15°	585.9	556.5	511.3	478.2	445.2	374.3	303.3	248.3	218.9	204.3	204.3
17.5°	600.6	576.1	528.4	484.4	409.8	304.6	215.3	167.6	162.7	165.1	165.1
20°	631.1	598.1	548.0	489.3	351.0	216.5	157.8	152.9	155.3	160.2	159.0
22.5°	650.7	617.7	562.6	467.2	271.5	155.3	148.0	145.6	148.0	154.1	154.1
25°	666.6	645.8	585.9	413.4	192.0	140.7	138.2	140.7	143.1	145.6	149.2
27.5°	705.8	670.3	601.8	343.7	138.2	130.9	133.3	134.5	134.5	138.2	139.4
30°	731.4	703.3	614.0	265.4	122.3	121.1	123.5	124.8	126.0	129.7	130.9
32.5°	755.9	746.1	598.1	179.8	115.0	112.5	111.3	112.5	117.4	121.1	119.9
35°	791.4	785.3	574.9	124.8	107.6	102.7	100.3	101.5	105.2	108.9	107.6
37.5°	834.2	840.3	518.6	108.9	100.3	94.2	89.3	89.3	90.5	94.2	95.4
40°	884.3	900.2	452.6	101.5	95.4	88.1	83.2	77.1	75.8	74.6	75.8
42.5°	976.1	994.4	378.0	96.6	88.1	79.5	72.2	64.8	58.7	55.0	55.0
45°	1104.5	1089.8	280.1	91.7	84.4	72.2	61.2	52.6	44.0	40.4	40.4
47.5°	1281.9	1231.7	192.0	86.8	78.3	63.6	51.4	40.4	33.0	29.4	29.4
50°	1527.7	1362.6	124.8	82.0	74.6	55.0	41.6	29.4	24.5	23.2	24.5
52.5°	1760.1	1495.9	99.1	75.8	67.3	47.7	31.8	24.5	22.0	20.8	20.8
55°	1974.2	1563.2	88.1	69.7	61.2	39.1	26.9	20.8	19.6	18.3	18.3
57.5°	2155.2	1586.4	75.8	61.2	48.9	30.6	22.0	18.3	15.9	14.7	14.7
60°	2311.7	1592.5	58.7	48.9	35.5	23.2	18.3	15.9	13.5	11.0	11.0
62.5°	2436.5	1549.7	41.6	34.2	24.5	18.3	15.9	11.0	7.3	4.9	3.7
65°	2535.6	1464.1	28.1	23.2	15.9	13.5	9.8	4.9	1.2	0.0	0.0
67.5°	2419.4	1269.6	22.0	17.1	11.0	8.6	4.9	1.2	0.0	0.0	0.0
70°	1972.9	984.6	15.9	11.0	7.3	2.4	1.2	0.0	0.0	0.0	0.0
72.5°	1343.0	634.8	12.2	7.3	3.7	1.2	0.0	0.0	0.0	0.0	0.0
75°	603.0	227.5	8.6	4.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	146.8	53.8	6.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	39.1	13.5	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.7	4.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.2	0.0	0.0	0.0	0.0	0.0	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)