

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: P676776

Luminaire Tested: **CCW-SA-1E-840-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676776
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-840-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

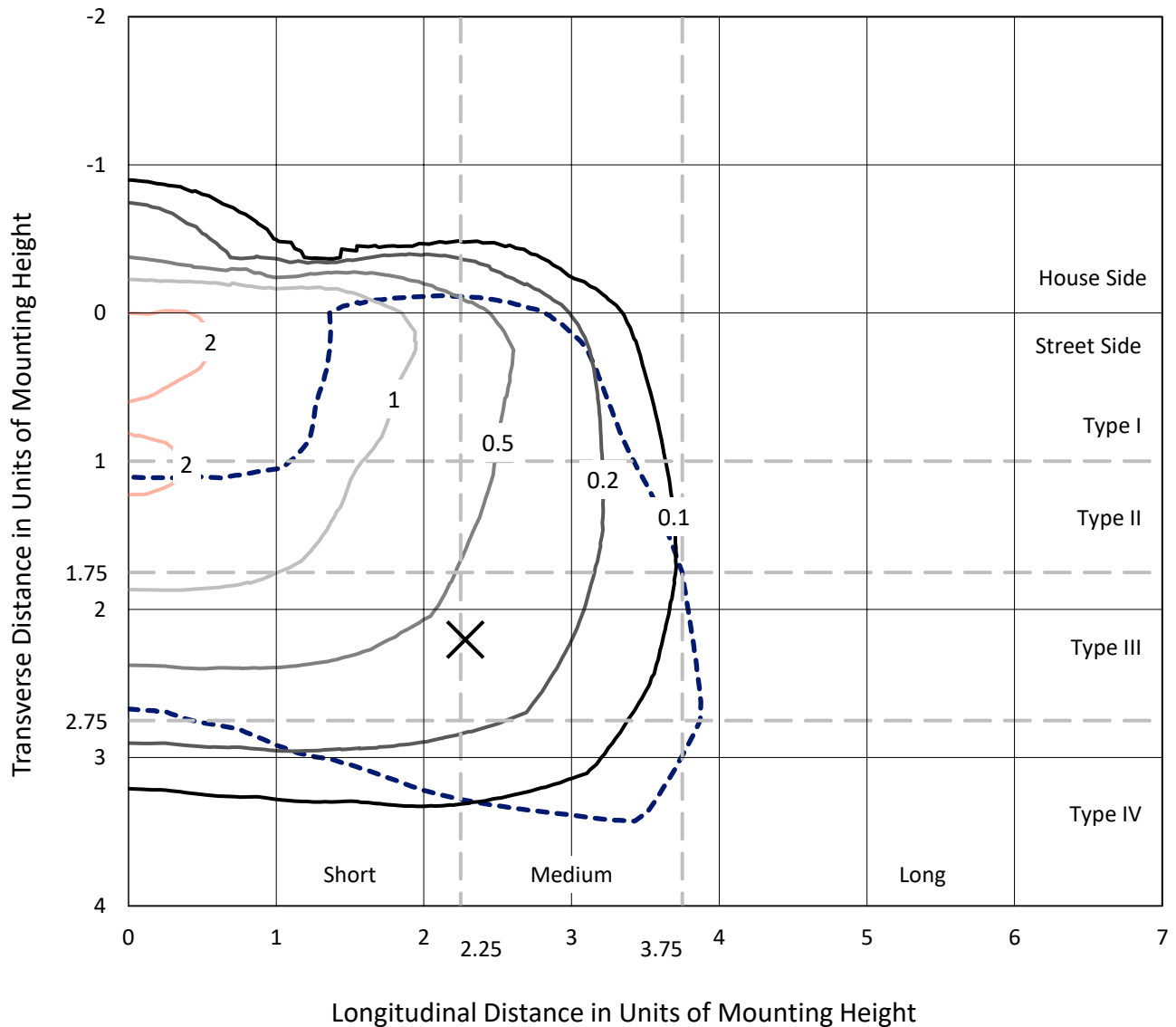
Lumens per Lamp: N/A
Luminaire Lumens: 4205.7 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
Input Voltage (V): 120
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

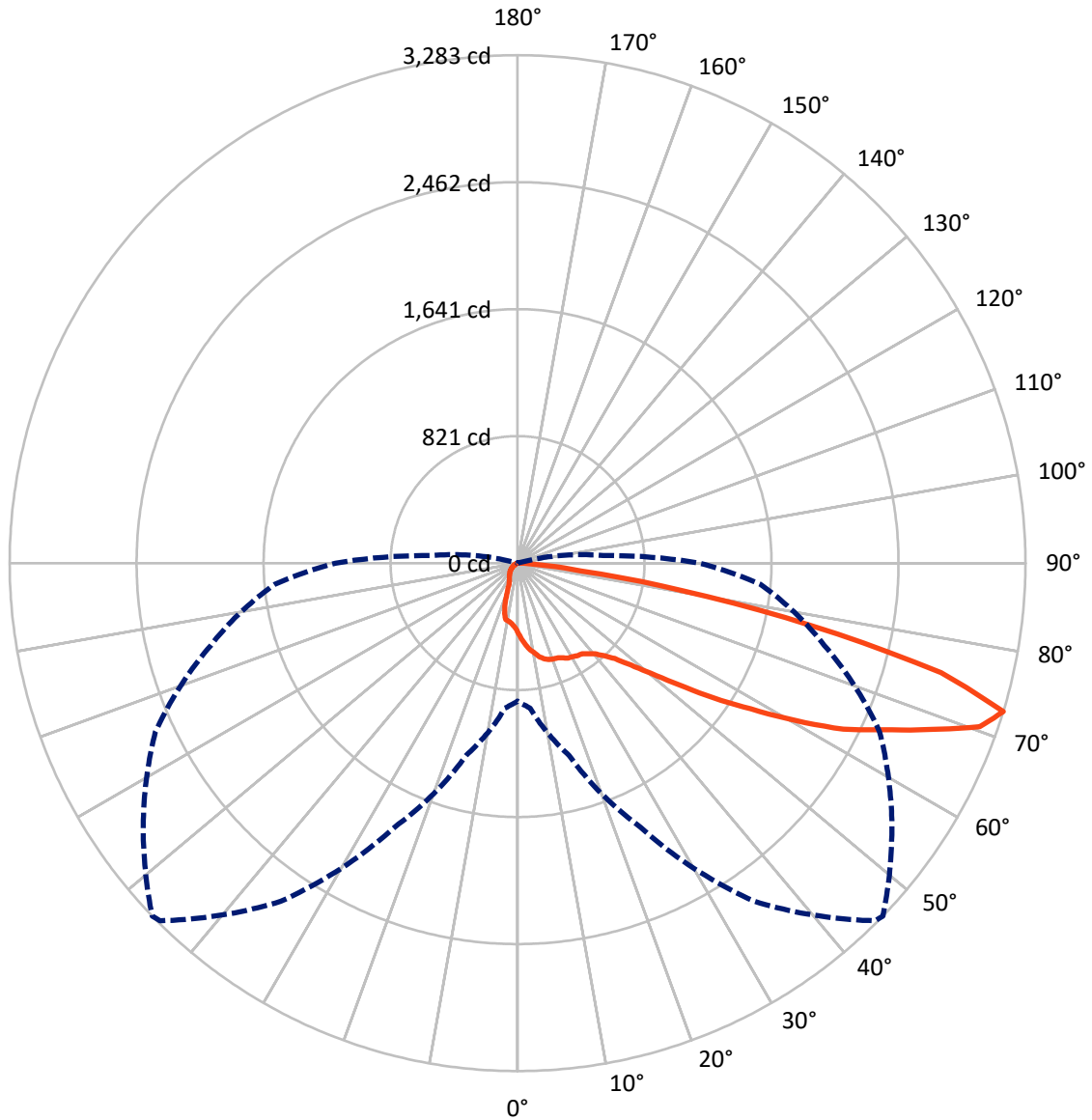
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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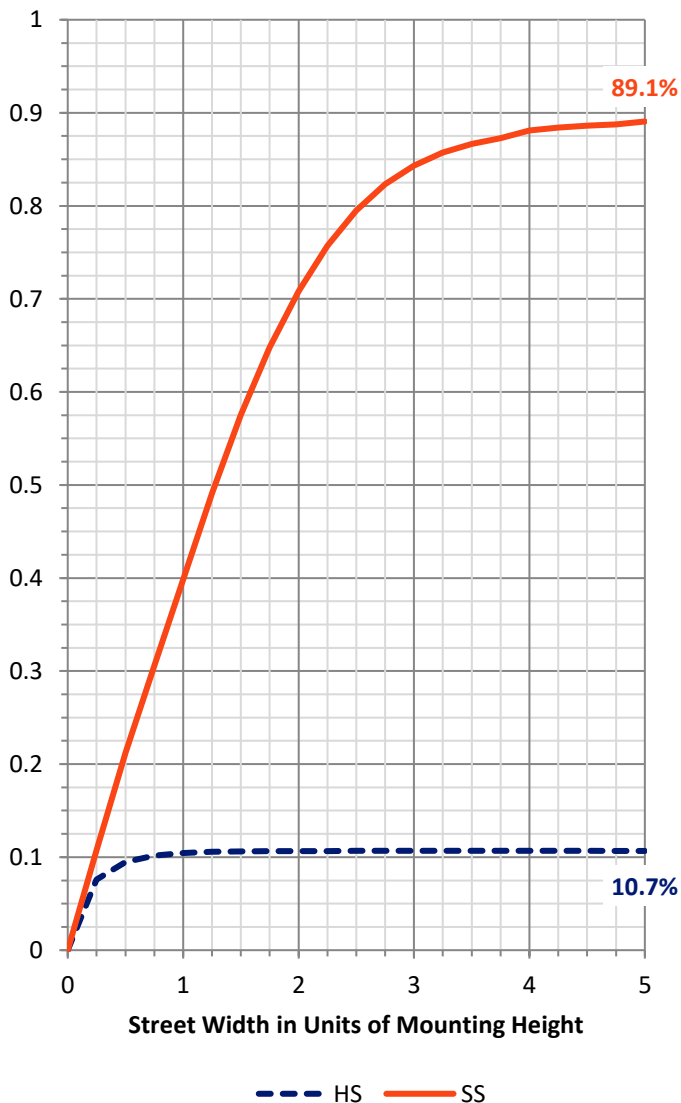
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	452.8	0.0	452.8
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3752.9	0.0	3752.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	4205.7	0.0	4205.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	1.1
10°-20°	135.8	3.2
20°-30°	212.6	5.1
30°-40°	297.8	7.1
40°-50°	491.0	11.7
50°-60°	882.6	21.0
60°-70°	1279.2	30.4
70°-80°	798.3	19.0
80°-90°	63.3	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°	4205.7	100.0
0°-180°	4205.7	100.0



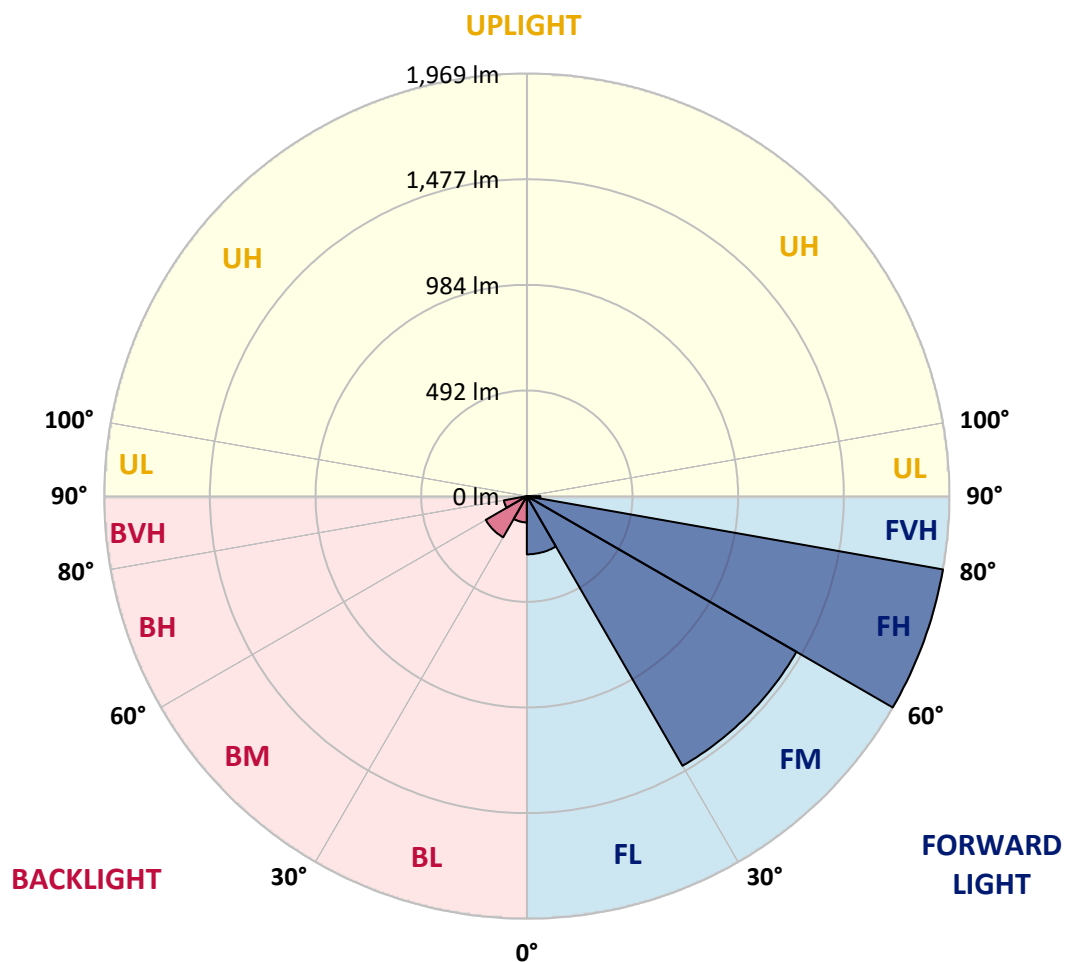
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.1	6.4			
FM (30°-60°)	1450.2	34.5			
FH (60°-80°)	1968.7	46.8			G2/5000
FVH (80°-90°)	62.9	1.5			G1/100
BL (0°-30°)	122.4	2.9	B1/500		
BM (30°-60°)	221.2	5.3	B1/1000		
BH (60°-80°)	108.9	2.6	B0/110		G0/110
BVH (80°-90°)	0.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5
2.5°	503.1	501.0	504.2	503.1	490.3	492.4	491.3	482.7	467.7	459.1	453.8
5°	561.1	566.4	562.1	552.5	545.0	529.9	527.8	513.9	490.3	475.2	459.1
7.5°	621.1	621.1	612.5	597.5	581.4	565.3	563.2	539.6	519.2	493.5	470.9
10°	666.2	660.8	654.4	638.3	620.1	598.6	587.9	570.7	548.2	517.1	488.1
12.5°	705.9	697.3	686.6	663.0	641.5	617.9	620.1	592.2	577.1	549.3	506.3
15°	728.4	720.9	711.2	689.8	656.5	645.8	641.5	624.3	597.5	569.6	528.9
17.5°	733.8	728.4	715.5	687.6	669.4	656.5	655.5	635.1	623.3	599.7	554.6
20°	723.0	713.4	703.7	685.5	668.3	664.0	660.8	660.8	645.8	614.7	570.7
22.5°	704.8	694.1	688.7	678.0	664.0	663.0	665.1	663.0	651.2	630.8	587.9
25°	690.9	685.5	676.9	673.7	665.1	681.2	678.0	674.8	671.5	647.9	614.7
27.5°	695.1	694.1	687.6	674.8	668.3	685.5	695.1	696.2	695.1	671.5	639.4
30°	697.3	691.9	685.5	682.3	684.4	701.6	701.6	725.2	715.5	691.9	664.0
32.5°	722.0	718.7	697.3	689.8	690.9	711.2	712.3	735.9	732.7	716.6	685.5
35°	774.5	753.1	722.0	700.5	700.5	727.3	718.7	753.1	761.7	735.9	700.5
37.5°	852.8	836.8	781.0	732.7	714.5	733.8	742.3	761.7	787.4	764.9	730.5
40°	1008.4	1005.2	925.8	821.7	749.9	767.0	770.2	800.3	817.4	786.3	776.7
42.5°	1235.8	1219.7	1145.7	981.6	814.2	806.7	818.5	837.8	878.6	852.8	829.2
45°	1457.9	1450.4	1376.3	1192.9	931.2	886.1	879.7	914.0	974.1	946.2	927.9
47.5°	1618.8	1603.8	1561.9	1407.5	1102.8	979.4	983.7	1018.0	1094.2	1072.8	1078.1
50°	1742.2	1734.7	1690.7	1605.9	1319.5	1126.4	1117.8	1152.1	1255.1	1269.1	1284.1
52.5°	1877.3	1891.3	1832.3	1760.4	1575.9	1323.8	1304.5	1316.3	1449.3	1481.5	1523.3
55°	2007.1	2029.7	1970.7	1961.0	1844.1	1542.6	1539.4	1511.5	1683.2	1687.4	1710.0
57.5°	2091.9	2084.4	2080.1	2132.6	2112.3	1793.7	1777.6	1749.7	1905.2	1877.3	1944.9
60°	2098.3	2119.8	2191.6	2321.4	2357.9	2088.7	2065.1	1988.9	2097.2	2030.7	2159.5
62.5°	2146.6	2163.8	2296.8	2475.9	2523.1	2348.3	2364.4	2171.3	2261.4	2208.8	2397.6
65°	2024.3	2077.9	2345.1	2596.1	2739.8	2611.1	2595.0	2406.2	2429.8	2380.5	2632.5
67.5°	1913.8	1934.2	2213.1	2632.5	2911.5	2875.0	2868.6	2614.3	2603.6	2512.4	2699.1
70°	1555.5	1580.2	1855.9	2445.9	2969.4	3182.9	3167.9	2906.1	2721.6	2440.5	2357.9
72.5°	891.5	940.8	1286.2	1883.8	2668.0	3268.7	3282.6	2953.3	2582.1	2052.2	1574.8
75°	291.8	305.7	534.2	1067.4	1995.3	2851.4	2826.7	2538.1	2083.3	1354.9	711.2
77.5°	98.7	100.8	157.7	386.2	1106.0	1926.7	1940.6	1814.0	1279.8	563.2	196.3
80°	50.4	53.6	77.2	144.8	454.8	1049.2	1071.7	1034.1	536.4	166.3	47.2
82.5°	23.6	24.7	45.1	80.5	208.1	411.9	411.9	452.7	189.9	93.3	19.3
85°	8.6	8.6	23.6	46.1	88.0	137.3	138.4	139.5	99.8	69.7	8.6
87.5°	3.2	3.2	11.8	19.3	32.2	41.8	41.8	33.3	50.4	46.1	3.2
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°	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5
2.5°	451.6	445.2	439.8	432.3	422.7	417.3	418.4	411.9	411.9	408.7	407.6
5°	451.6	445.2	431.2	418.4	409.8	399.1	393.7	389.4	389.4	387.3	388.3
7.5°	454.8	445.2	425.9	408.7	394.8	384.0	375.5	374.4	372.2	366.9	371.2
10°	474.2	460.2	428.0	404.4	388.3	376.5	361.5	357.2	350.8	341.1	342.2
12.5°	490.3	472.0	443.0	410.9	390.5	371.2	336.8	299.3	283.2	266.0	267.1
15°	513.9	488.1	448.4	419.4	390.5	328.3	266.0	217.8	192.0	179.2	179.2
17.5°	526.7	505.3	463.4	424.8	359.4	267.1	188.8	147.0	142.7	144.8	144.8
20°	553.5	524.6	480.6	429.1	307.9	189.9	138.4	134.1	136.2	140.5	139.5
22.5°	570.7	541.7	493.5	409.8	238.2	136.2	129.8	127.7	129.8	135.2	135.2
25°	584.7	566.4	513.9	362.6	168.4	123.4	121.2	123.4	125.5	127.7	130.9
27.5°	619.0	587.9	527.8	301.4	121.2	114.8	116.9	118.0	118.0	121.2	122.3
30°	641.5	616.8	538.5	232.8	107.3	106.2	108.3	109.4	110.5	113.7	114.8
32.5°	663.0	654.4	524.6	157.7	100.8	98.7	97.6	98.7	103.0	106.2	105.1
35°	694.1	688.7	504.2	109.4	94.4	90.1	88.0	89.0	92.3	95.5	94.4
37.5°	731.6	737.0	454.8	95.5	88.0	82.6	78.3	78.3	79.4	82.6	83.7
40°	775.6	789.6	396.9	89.0	83.7	77.2	72.9	67.6	66.5	65.4	66.5
42.5°	856.1	872.2	331.5	84.7	77.2	69.7	63.3	56.9	51.5	48.3	48.3
45°	968.7	955.8	245.7	80.5	74.0	63.3	53.6	46.1	38.6	35.4	35.4
47.5°	1124.3	1080.3	168.4	76.2	68.7	55.8	45.1	35.4	29.0	25.7	25.7
50°	1339.9	1195.1	109.4	71.9	65.4	48.3	36.5	25.7	21.5	20.4	21.5
52.5°	1543.7	1312.0	86.9	66.5	59.0	41.8	27.9	21.5	19.3	18.2	18.2
55°	1731.4	1371.0	77.2	61.1	53.6	34.3	23.6	18.2	17.2	16.1	16.1
57.5°	1890.2	1391.4	66.5	53.6	42.9	26.8	19.3	16.1	13.9	12.9	12.9
60°	2027.5	1396.7	51.5	42.9	31.1	20.4	16.1	13.9	11.8	9.7	9.7
62.5°	2136.9	1359.2	36.5	30.0	21.5	16.1	13.9	9.7	6.4	4.3	3.2
65°	2223.8	1284.1	24.7	20.4	13.9	11.8	8.6	4.3	1.1	0.0	0.0
67.5°	2121.9	1113.5	19.3	15.0	9.7	7.5	4.3	1.1	0.0	0.0	0.0
70°	1730.4	863.6	13.9	9.7	6.4	2.1	1.1	0.0	0.0	0.0	0.0
72.5°	1177.9	556.8	10.7	6.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	528.9	199.5	7.5	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	128.7	47.2	5.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	34.3	11.8	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.9	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.1	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)