

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: STREETWORKS

Report Number: P479207

Luminaire Tested: **IFLD-S-SA2D-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479207
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

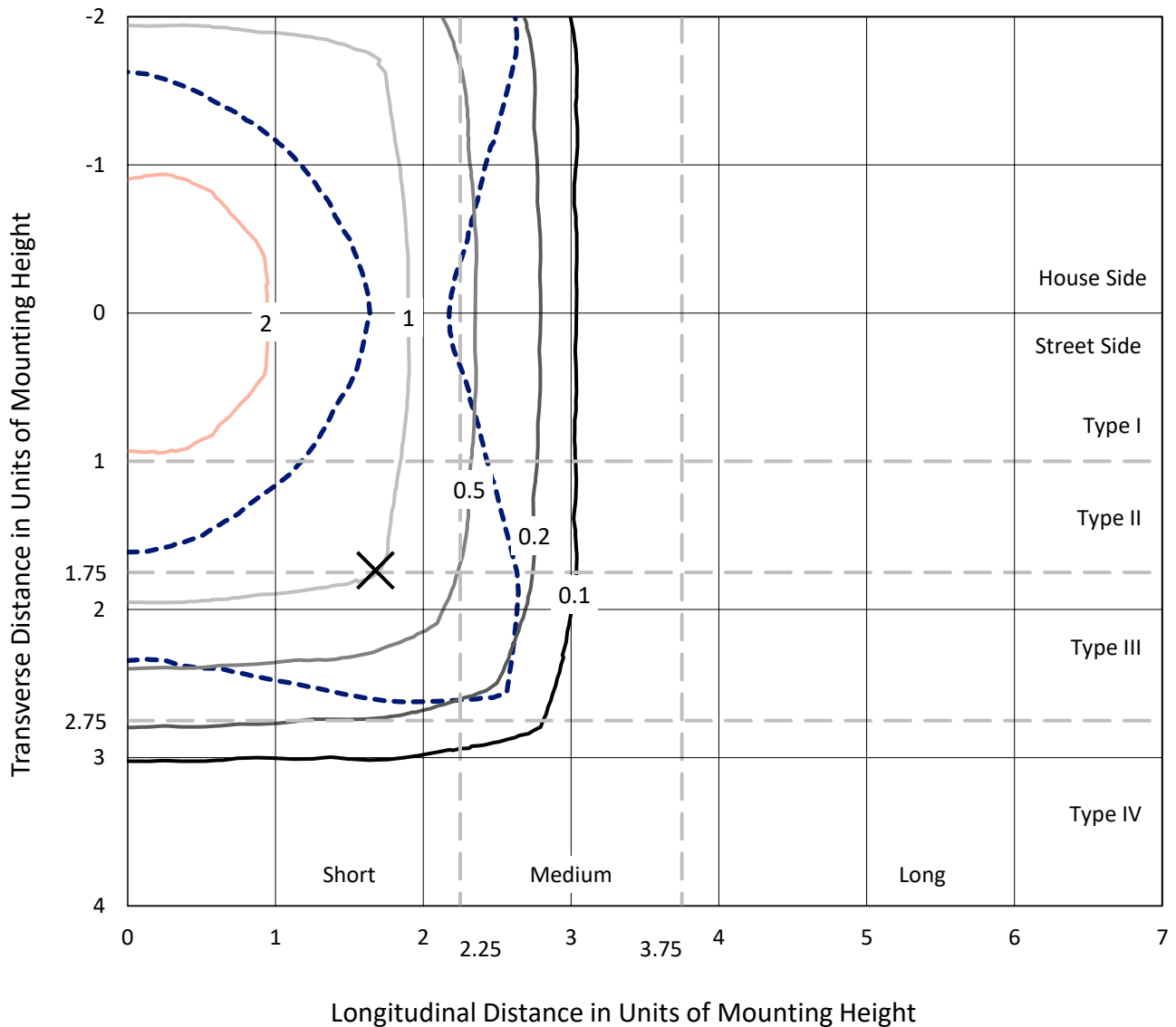
Lumens per Lamp: N/A
Luminaire Lumens: 13202.4 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 123.9
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

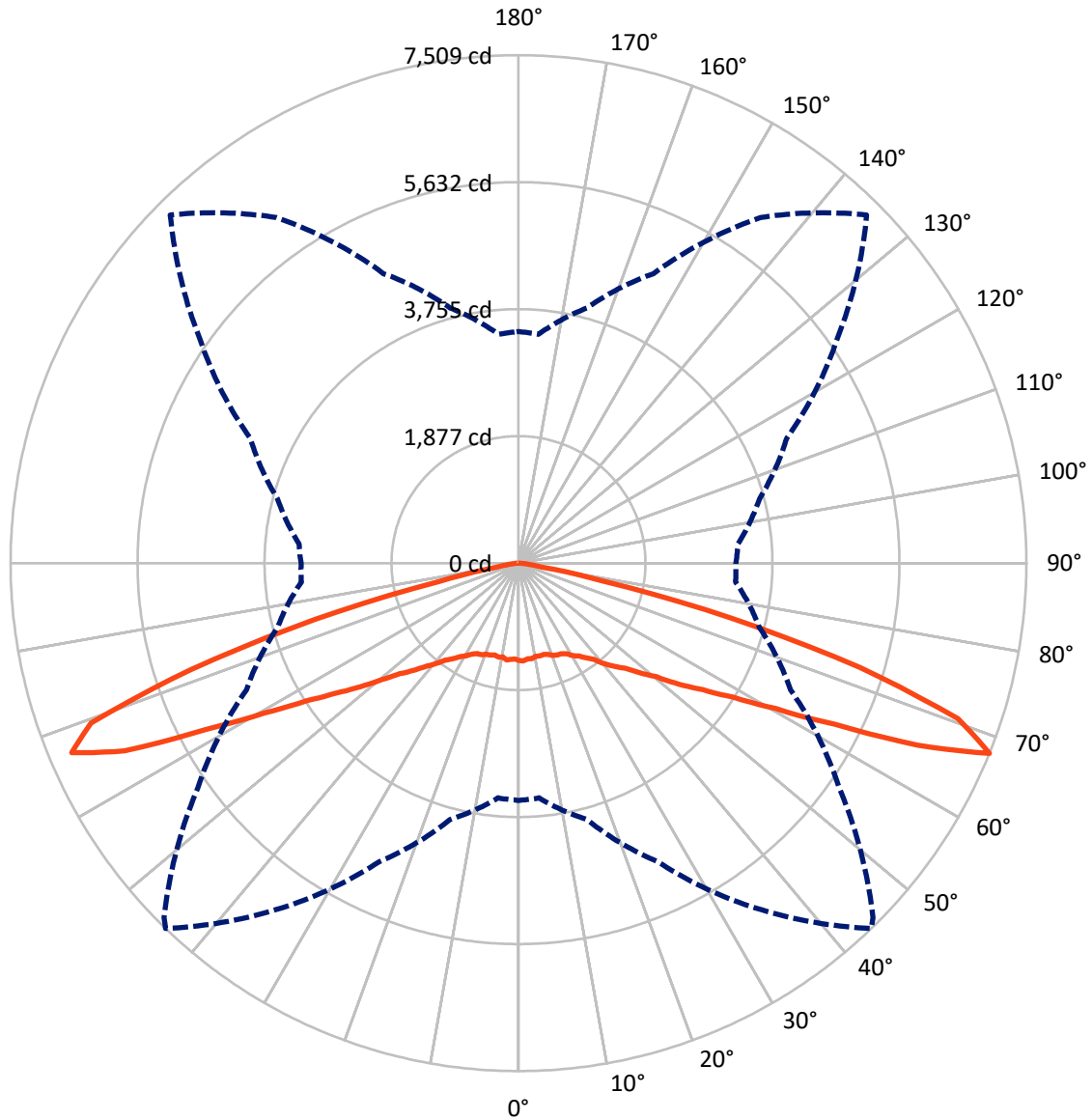
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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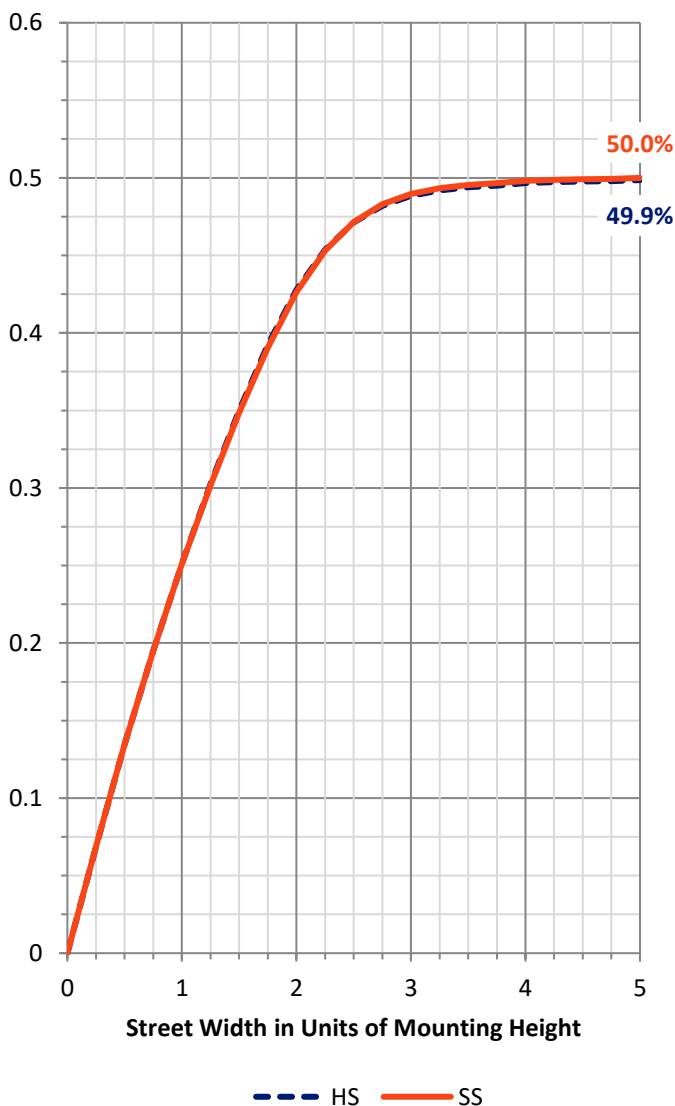
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6584.3	0.0	6584.3
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	6618.1	0.0	6618.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	13202.4	0.0	13202.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	1.0
10°-20°	398.7	3.0
20°-30°	678.0	5.1
30°-40°	1075.0	8.1
40°-50°	1752.9	13.3
50°-60°	2993.7	22.7
60°-70°	4553.3	34.5
70°-80°	1534.7	11.6
80°-90°	79.7	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°	13202.4	100.0
0°-180°	13202.4	100.0

Coefficient of Utilization



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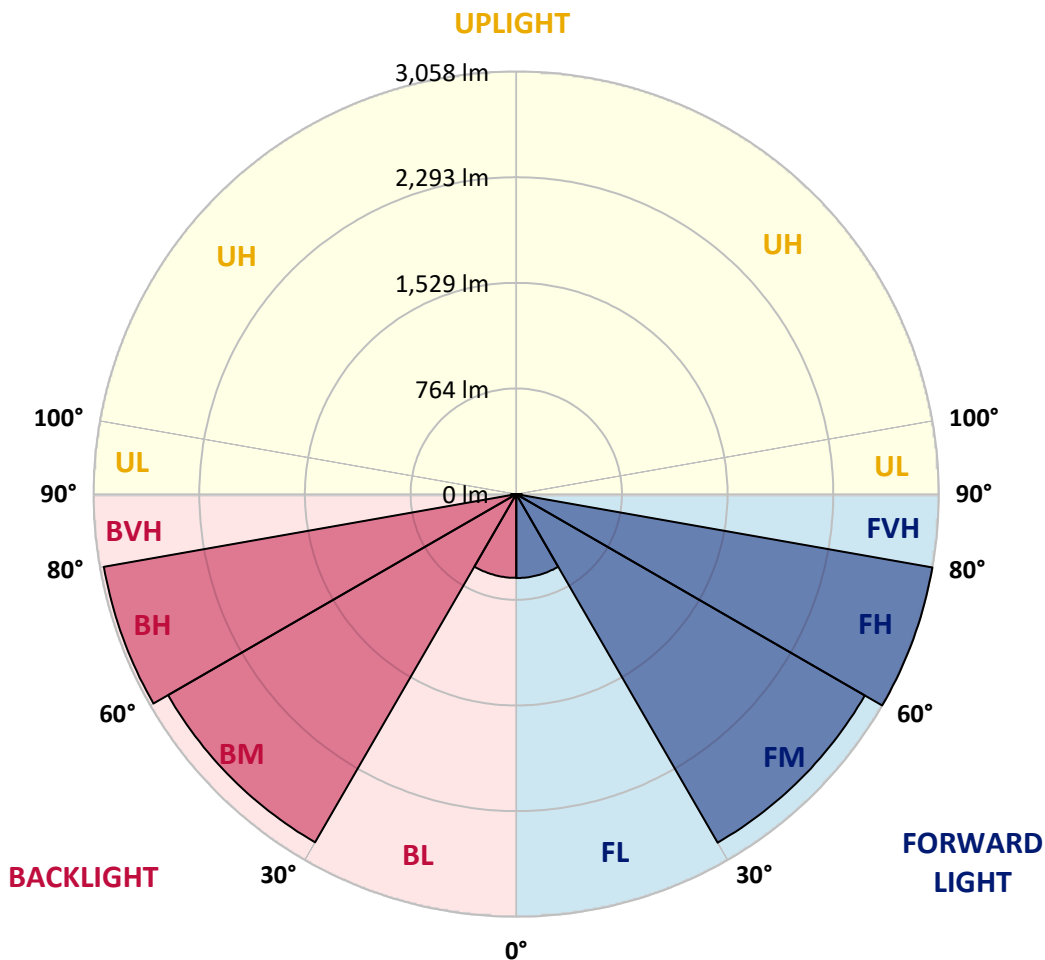
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.2	4.6			
FM (30°-60°)	2912.3	22.1			
FH (60°-80°)	3057.8	23.2			G2/5000
FVH (80°-90°)	40.8	0.3			G1/100
BL (0°-30°)	606.0	4.6	B2/1000		
BM (30°-60°)	2909.2	22.0	B3/5000		
BH (60°-80°)	3030.2	23.0	B4/5000		G2/5000
BVH (80°-90°)	38.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1442.1	1442.1	1442.1	1442.1	1442.1	1442.1	1442.1	1442.1	1442.1	1442.1	1442.1
2.5°	1409.0	1425.6	1437.6	1436.1	1440.6	1445.1	1439.1	1448.2	1442.1	1452.7	1458.7
5°	1436.1	1431.6	1433.1	1424.1	1445.1	1421.0	1421.0	1433.1	1448.2	1430.1	1440.6
7.5°	1419.5	1416.5	1409.0	1422.5	1427.1	1427.1	1439.1	1416.5	1442.1	1448.2	1449.7
10°	1401.4	1384.9	1407.5	1421.0	1424.1	1399.9	1410.5	1416.5	1409.0	1416.5	1421.0
12.5°	1386.4	1395.4	1395.4	1395.4	1390.9	1407.5	1418.0	1416.5	1401.4	1415.0	1390.9
15°	1384.9	1380.3	1393.9	1406.0	1398.4	1401.4	1406.0	1419.5	1390.9	1396.9	1396.9
17.5°	1383.4	1389.4	1393.9	1392.4	1418.0	1418.0	1413.5	1404.5	1427.1	1415.0	1398.4
20°	1389.4	1384.9	1396.9	1401.4	1419.5	1455.7	1442.1	1434.6	1422.5	1407.5	1407.5
22.5°	1396.9	1393.9	1410.5	1430.1	1464.7	1473.8	1472.3	1463.2	1442.1	1424.1	1421.0
25°	1424.1	1396.9	1415.0	1452.7	1464.7	1482.8	1494.9	1482.8	1454.2	1458.7	1431.6
27.5°	1464.7	1460.2	1484.3	1509.9	1499.4	1516.0	1505.4	1514.5	1516.0	1493.4	1466.2
30°	1513.0	1499.4	1514.5	1564.2	1568.7	1586.8	1568.7	1544.6	1552.1	1532.5	1519.0
32.5°	1582.3	1577.8	1606.4	1639.5	1645.6	1636.5	1627.5	1641.0	1609.4	1594.3	1570.2
35°	1627.5	1647.1	1681.7	1707.4	1726.9	1717.9	1722.4	1708.9	1716.4	1684.7	1674.2
37.5°	1761.6	1754.1	1761.6	1805.3	1809.8	1805.3	1809.8	1824.9	1814.3	1787.2	1760.1
40°	1888.2	1876.1	1894.2	1943.9	1940.9	1956.0	1925.9	1942.4	1942.4	1891.2	1880.7
42.5°	1983.1	2023.8	2044.9	2085.6	2100.7	2087.1	2081.1	2084.1	2117.2	2057.0	2034.4
45°	2179.0	2177.5	2240.8	2263.4	2221.2	2218.2	2206.1	2242.3	2264.9	2230.3	2221.2
47.5°	2391.5	2402.0	2438.2	2447.3	2472.9	2426.2	2426.2	2430.7	2510.5	2429.2	2387.0
50°	2582.9	2596.4	2668.8	2739.6	2691.4	2641.7	2661.2	2685.4	2729.1	2652.2	2616.0
52.5°	2814.9	2888.8	2937.0	2974.7	3009.3	2974.7	2929.5	2956.6	3042.5	2940.0	2894.8
55°	3149.5	3208.3	3253.5	3322.8	3351.4	3304.7	3300.2	3297.2	3345.4	3236.9	3175.1
57.5°	3523.2	3499.1	3571.4	3678.4	3782.4	3737.2	3723.6	3726.6	3738.7	3585.0	3538.3
60°	3987.3	4014.5	4100.4	4193.8	4303.8	4367.1	4278.2	4226.9	4237.5	4028.0	3955.7
62.5°	4252.6	4312.8	4507.2	4828.2	5049.7	5247.1	5260.7	4927.7	4704.6	4297.8	3990.4
65°	4124.5	4115.4	4481.6	5075.3	5914.7	6488.8	6403.0	5595.2	4816.2	4169.7	3756.8
67.5°	3508.1	3484.0	3927.1	4868.9	6255.3	7509.0	7411.1	5783.6	4439.4	3689.0	3221.8
70°	2260.4	2254.4	2735.1	3711.6	5584.7	6894.2	6930.4	5253.2	3613.6	2701.9	2239.3
72.5°	821.3	871.0	1149.8	1995.2	3792.9	5274.3	5296.9	3889.4	2078.1	1249.2	920.7
75°	302.9	311.9	363.2	648.0	1728.5	3238.4	3322.8	1886.7	738.4	406.9	331.5
77.5°	174.8	176.3	194.4	241.1	512.4	1264.3	1315.6	572.6	286.3	217.0	200.4
80°	119.0	117.5	137.1	156.7	204.9	358.6	381.3	239.6	180.8	150.7	126.6
82.5°	69.3	73.8	101.0	111.5	125.1	158.2	161.2	149.2	135.6	111.5	82.9
85°	42.2	34.7	55.8	61.8	72.3	70.8	70.8	81.4	87.4	78.4	46.7
87.5°	10.5	10.5	13.6	15.1	19.6	15.1	16.6	31.6	42.2	39.2	24.1
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°	1442.1	1442.1	1442.1	1442.1	1442.1	1442.1	1442.1	1442.1	1442.1	1442.1	1442.1
2.5°	1445.1	1440.6	1443.6	1460.2	1449.7	1418.0	1425.6	1442.1	1428.6	1421.0	1419.5
5°	1439.1	1448.2	1437.6	1440.6	1451.2	1425.6	1430.1	1451.2	1442.1	1445.1	1428.6
7.5°	1440.6	1445.1	1436.1	1422.5	1422.5	1443.6	1431.6	1434.6	1421.0	1443.6	1413.5
10°	1431.6	1419.5	1409.0	1416.5	1413.5	1407.5	1403.0	1412.0	1398.4	1418.0	1396.9
12.5°	1404.5	1407.5	1404.5	1401.4	1407.5	1422.5	1398.4	1401.4	1380.3	1383.4	1393.9
15°	1393.9	1403.0	1399.9	1416.5	1424.1	1401.4	1419.5	1401.4	1384.9	1375.8	1392.4
17.5°	1398.4	1412.0	1407.5	1419.5	1406.0	1422.5	1425.6	1418.0	1398.4	1390.9	1398.4
20°	1403.0	1398.4	1404.5	1425.6	1445.1	1428.6	1428.6	1424.1	1406.0	1395.4	1395.4
22.5°	1413.5	1406.0	1415.0	1431.6	1437.6	1463.2	1440.6	1430.1	1399.9	1372.8	1398.4
25°	1434.6	1439.1	1445.1	1439.1	1472.3	1469.3	1466.2	1458.7	1412.0	1413.5	1409.0
27.5°	1475.3	1449.7	1457.2	1493.4	1497.9	1509.9	1494.9	1508.4	1458.7	1460.2	1430.1
30°	1525.0	1497.9	1522.0	1553.6	1552.1	1574.7	1567.2	1570.2	1535.6	1516.0	1475.3
32.5°	1579.3	1576.3	1591.3	1610.9	1618.4	1630.5	1629.0	1629.0	1607.9	1556.7	1564.2
35°	1639.5	1660.6	1678.7	1699.8	1702.8	1717.9	1696.8	1699.8	1678.7	1641.0	1653.1
37.5°	1758.6	1757.1	1776.7	1802.3	1805.3	1793.2	1809.8	1802.3	1773.7	1748.0	1728.5
40°	1897.2	1867.1	1885.2	1945.4	1950.0	1928.9	1927.4	1925.9	1904.8	1849.0	1836.9
42.5°	2017.8	2057.0	2053.9	2073.5	2060.0	2049.4	2087.1	2066.0	2049.4	1990.7	1980.1
45°	2173.0	2185.1	2224.2	2287.5	2222.7	2222.7	2248.3	2231.8	2222.7	2179.0	2138.3
47.5°	2365.9	2376.4	2454.8	2459.3	2417.1	2388.5	2468.4	2471.4	2433.7	2400.5	2350.8
50°	2591.9	2596.4	2667.3	2739.6	2692.9	2638.6	2720.0	2751.7	2667.3	2622.1	2560.3
52.5°	2840.6	2827.0	2885.8	3021.4	2976.2	2959.6	3047.0	3054.6	2940.0	2869.2	2885.8
55°	3126.9	3108.8	3268.5	3360.5	3331.8	3301.7	3340.9	3359.0	3267.0	3151.0	3191.7
57.5°	3497.6	3506.6	3586.5	3676.9	3723.6	3731.2	3749.2	3731.2	3637.7	3520.2	3482.5
60°	3868.3	3895.4	4050.6	4220.9	4236.0	4368.6	4344.5	4254.1	4121.5	3954.2	3961.7
62.5°	4005.4	3982.8	4233.0	4648.9	5003.0	5245.6	5138.6	4817.7	4510.2	4205.8	4228.5
65°	3729.7	3785.4	4126.0	4777.0	5545.5	6505.4	5935.8	5048.2	4427.4	4034.1	3990.4
67.5°	3214.3	3256.5	3689.0	4376.1	5739.9	7280.0	6237.2	4722.7	3904.5	3395.1	3422.2
70°	2239.3	2260.4	2683.8	3585.0	5204.9	6870.1	5626.9	3627.2	2695.9	2148.9	2179.0
72.5°	901.1	952.4	1231.2	2159.4	3842.7	5220.0	3788.4	1903.3	1118.1	831.8	755.0
75°	333.0	334.5	393.3	742.9	1824.9	3280.6	1708.9	611.8	357.1	292.3	278.8
77.5°	192.9	191.4	204.9	268.2	528.9	1280.9	485.2	239.6	194.4	174.8	167.3
80°	120.6	119.0	140.1	177.8	232.1	351.1	204.9	149.2	131.1	113.0	113.0
82.5°	76.9	78.4	110.0	131.1	141.7	155.2	119.0	105.5	98.0	64.8	63.3
85°	49.7	45.2	76.9	87.4	78.4	69.3	66.3	55.8	51.2	31.6	34.7
87.5°	22.6	24.1	39.2	43.7	28.6	16.6	16.6	12.1	12.1	7.5	7.5
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)